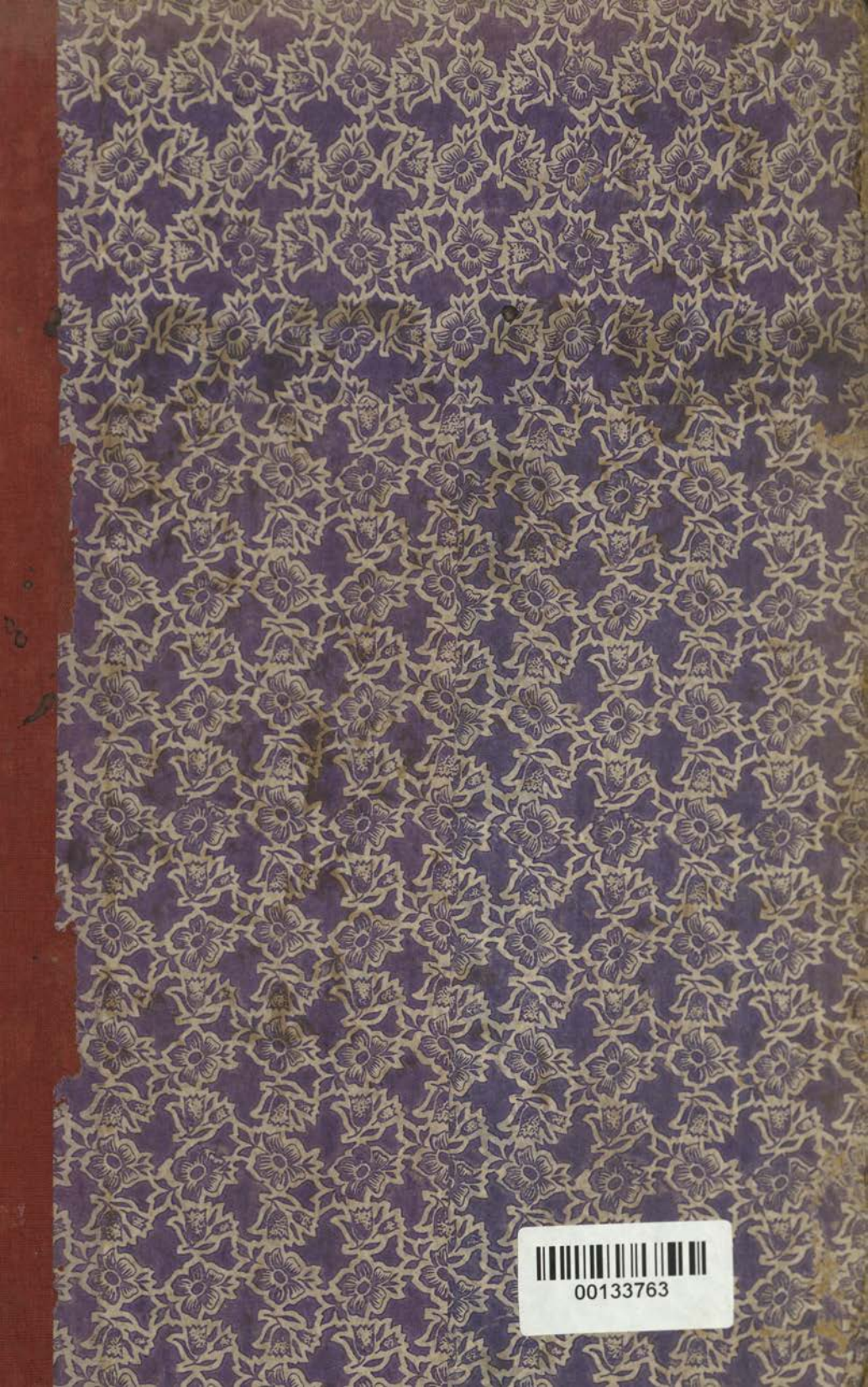
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THE
ASIATIC SOCIETY OF BOMBAY
TOWN HALL, BOMBAY-400 023.

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ADMINISTRATION REPORT

OF THE

MUNICIPAL COMMISSIONER

FOR THE

CITY OF BOMBAY

FOR THE YEAR 1913-14.

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BOMBAY :
PRINTED AT THE TIMES PRESS.

1914

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PART I.

Printed by E. G. Pearson, at the Times Press, Bombay, and published by P. R. Cadell
Municipal Commissioner, Bombay.

ERRATUM.

At page 47, para. 86, line 9, in lieu of "is now over Rs. 23,000" please read "is now over Rs. 21,000."

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Review by the Standing Committee of the Administration Report of the Municipal Commissioner for the City of Bombay for the year 1913-14.

Corporation and Standing Committee.

Mr. A. M. Tod was President of the Corporation, and the Honourable Mr. Fazulbhoy M. Chinoy, Chairman of the Standing Committee for the year.

2. 52 Meetings were held by the Corporation. The Standing Committee meetings also numbered 52. There were besides 89 Meetings of Committees of the Corporation and 12 Meetings of Sub-Committees of the Standing Committee.

3. His Excellency Lord Hardinge, Viceroy and Governor-General of India, visited the City in March 1914, and was pleased to receive an Address from the Corporation. The Address was presented at the Town Hall in the presence of an enthusiastic gathering of the citizens of Bombay, among those present being Lady Hardinge, His Excellency the Governor and Lady Willingdon.

Commissioner.

4. Mr. P. R. Cadell, C.I.E., I.C.S., continued to hold the office of Municipal Commissioner for the City of Bombay upto 15th July 1913, when he proceeded to Karachi to take charge of the office of Commissioner in Sind temporarily and Mr. J. Crerar, I.C.S., was appointed to the post. Mr. Crerar resigned the appointment on 19th October 1913 and Mr. Cadell was re-appointed Municipal Commissioner from that date. Mr. Cadell was on combined leave from 3rd November 1913 to 26th June 1914, and Mr. Crerar was appointed to act for him, but as he also proceeded on leave from 20th November 1913, Mr. H. B. Clayton, I.C.S., was appointed Acting Municipal Commissioner from that date and he continued to hold the office throughout the remaining portion of the year.

Deputy Commissioner.

5. Mr J. Crerar, I.C.S., was temporarily appointed Deputy Commissioner from 22nd April 1913 to 15th July 1913 and again from 19th October 1913 to 2nd November 1913.

FINANCIAL.

6. The financial position of the Corporation continues to be satisfactory. Despite a reduction in the General Tax from 10⅝ per cent. to 10 per cent. the year's accounts revealed an increase in the revenue of the Municipality, the net result of the transactions for the year being a Surplus of Rs. 8,27,575. Out of this Surplus Rs. 1,00,000 were utilized towards writing off the unadjusted balance of Plague Expenditure. The year opened with a working Cash Balance of Rs. 46,29,577 and closed with a balance of Rs. 53,81,525. If from this balance are excluded Rs. 10,08,232 reserved for lapsed grants required to be renewed in 1914-15, Rs. 9,73,000 ear-marked for payment to the City Improvement Trust on 1st May 1914, and Rs. 1,00,000, the minimum required to be reserved under the Municipal Act, a sum of Rs. 33,00,293 remains as the real unhypothecated Cash Balance at the close of the year against Rs. 25,86,621 for the preceding year, showing a substantial increase of Rs. 7,13,672. From this

balance advances to the extent of Rs. 8,78,746 were made to finance projects payable out of loan funds. The Assets aggregate Rs. 9,99,87,189 against liabilities amounting to Rs. 6,84,07,859, showing an excess of Rs. 3,15,79,330.

Income.

7. In view of a very substantial increase in the income for the year 1912-13 and accretion of large surplus balances the Standing Committee and the Corporation thought it desirable to reduce the General Tax on properties for the year under review from 10⅝ per cent. to 10 per cent. Nevertheless, there was a rise of Rs. 1,34,912 in the Income for the year which totalled the record figure of Rs. 1,28,76,501 against Rs. 1,27,41,589 in the year previous, affording once again a striking proof of the elasticity of our resources. The original Budget Estimate of Rs. 1,22,18,710 was exceeded by Rs. 6,57,791, the General Tax, the Halalkhore Tax and the Water Tax accounting for increases of Rs. 32,595, Rs. 31,128 and Rs. 1,35,434 respectively. The Wheel Tax brought in an increased revenue of Rs. 66,500, which was due partly to an under-estimate and partly to an increase in the number of labour carts plying for hire. The extra realizations owing to "Returns from Property and Miscellaneous" amounted to Rs. 2,38,692. This was principally due to an increase in the Market receipts, enhanced income from rents for acquired buildings which were not demolished during the year as anticipated, higher receipts for grazing, fishing, etc., rights, and an increase in interest realizations on investments of surplus funds rendered available in consequence of increased revenue receipts and diminished expenditure principally on loan works. The receipts from Town Duties also showed an increase of Rs. 1,20,637. Taking all the factors of expansion into consideration and eliminating all variable and unreliable sources of revenue, the Chief Accountant estimates the permanent expansion in the income of the Municipality at Rs. 4,00,000 as under, against Rs. 3,51,000 in the preceding year :—

		Rs.
Property taxes	+	3,54,000
Wheel tax	+	28,000
Licenses	+	4,000
Receipts from Tobacco Duty	+	7,000
Market receipts	+	15,000
Miscellaneous Fees...	+	20,000
		4,28,000
Less—		
Interest on Corporation lands made over to the City Improvement Trust, the levy of which has been abolished in connection with the revised financial arrangements recently sanctioned by the legislature ...		—28,000
	Rs.	4,00,000

8. INCIDENCE OF TAXATION.—The following table for the last quinquennium shows a steady rise in the incidence of taxation :—

Year.	Rate of General Tax.	Incidence per head on population by census of 1911.
		Rs. a. p.
1909-10	9¼ %	9 13 2
1910-11	10⅜ %	10 11 0
1911-12	Do.	10 13 2
1912-13	Do.	11 8 5
1913-14	10 %	11 10 5

Expenditure.

9. Excluding Rs. 1,00,000 utilized towards writing off the unadjusted balance of Plague Expenditure advanced from Loan Funds, the total expenditure for the year reached the unprecedented figure of Rs. 1,20,48,926, indicating an advance of Rs. 3,67,339 on the outlay of Rs. 1,16,81,587 for the previous year. Some of the principal factors contributing to this enhancement were as under :—

	Rs.
Public Gardens	7,701
Public Works	3,24,835
New Works	58,676
Education	66,774
Contribution to the C. I. Trust	7,094
Debt	90,833

Making allowance for casual and non-recurring items, the Chief Accountant computes the permanent increase in expenditure at Rs. 5,05,000 as under, against Rs. 2,33,000 for the past year :—

	Rs.
General Superintendence	5,000
Public Gardens	7,000
Public Works Department	2,94,000
New Works	50,000
Education (contribution to Primary Education)	67,000
Pensions	9,000
Contribution to the C. I. Trust	7,000
Debt	91,000
	5,30,000
Less—Decrease in Expenditure on Public Health Department and Hospitals	25,000
Total Rs.	5,05,000

Against this permanent increase in expenditure the estimated expansion in revenue has been placed at Rs. 4,00,000, indicating that its rate of expansion falls below the rate of enhancement in expenditure and emphasizing the necessity for a closer approximation of receipts and disbursements. There is, however, no reason whatever for taking any unduly pessimistic view of the financial position of the Corporation. With the formidable surplus of Rs. 43,73,292 and with a wide margin of borrowing powers to the extent of over 2 crores, not to mention the yearly evidence of the inherent vitality of the principal and permanent sources of revenue, the Municipality has been amply fortified to meet with complacency the increasing demands of this growing city.

10. Lapsed Grants, &c.—Out of the total sanctioned grants for expenditure aggregating Rs. 1,33,19,020, a balance of Rs. 12,70,094 remained unexpended at the close of the year. Of this Rs. 10,08,232 required renewal for expenditure in 1914-15, leaving as savings a sum of Rs. 2,61,862. The amount which required renewal shows a decrease of Rs. 9,724 as compared with the amount for the previous year, the percentage of renewed grants to grants allotted being 7·57 against 7·7 in 1912-13 and 7·0 in 1911-12. The Standing Committee regret that notwithstanding repeated complaints there is still a very great disparity between sanctioned amounts and lapsed grants. The Committee have always made allowance for the difficulties mentioned in the Commissioner's report, *viz.*, scarcity of labour, delays in sanction and in securing land required for the works, and difficulties connected with the letting of contracts, but they have repeatedly urged what is re-iterated by the Commissioner in the report.

viz., that it should nevertheless be possible in future to bring about a closer approximation of actuals to the estimates than has been the case in the past. The amount of total unappropriated net savings shows a decrease of Rs. 1,39,184, the percentage working out at 1·96 against 3·06 in 1912-13 and 3·07 in 1911-12. The Committee are glad to note this decrease and they hope that both in respect of net savings and in respect of lapsed grants the reports in future will be more satisfactory.

11. Loan Works Expenditure.—The total outlay on Loan Works during the year aggregated Rs. 43,87,475 against Rs. 17,87,921 in the preceding year showing an increase of Rs. 25,99,554. The original estimates for the year aggregated Rs. 1,00,16,542 and the actual expenditure was nearly 57 per cent. below the estimates. In connection with the large unexpended balances under New Works, the Chief Accountant has for the first time appended to his report an important statement showing all new works for which grants existed during the year, the exprenditure incurred during the year and the balances required to be renewed. It shows that while the sanctioned grants at the commencement of the year amounted to Rs. 6,16,546, the Executive were only able to spend Rs. 2,58,045 or about 42 per cent. The Committee find from the Chief Accountant's report that there is a tendency to hasten expenditure before a proper grant has been provided. Whilst fully recognizing the zeal of the departments to carry out improvements as expeditiously as they can, the Committee hope that the financial provisions of the Municipal Act and the Standing Orders of the Corporation will be scrupulously observed in future.

12. Plague Expenditure.—The total outlay on plague measures from the outbreak of Plague to the close of the year under review stood at Rs. 78,46,895 and the expenditure for the year amounted to Rs. 1,24,682 against Rs. 1,47,763 in the preceding year, showing a decrease of Rs. 23,081.

13. Street Improvements.—For the acquisition of set-backs during the year grants amounting to Rs. 5,18,844 were sanctioned against which Rs. 3,32,925 were expended, leaving a balance of only Rs. 1,85,918 to be renewed in 1914-15. The undischarged commitments, however, upto 30th June 1914, in regard to set-backs already acquired and sanctioned to be acquired amount to Rs. 18,60,481 which with the addition of Rs. 2,32,059 paid from advances, in 1912-13 and 1913-14 augment the uncovered liabilities to Rs. 20,92,540. A loan of Rs. 20 lakhs was sanctioned for ordinary set-back improvements in 1912-13. Of this Rs. 6 lakhs only were raised during the year under review, so that the sanctioned balance has been exceeded by nearly Rs. 7 lakhs. The question of these liabilities is still engaging the attention of a Committee of the Corporation. The Standing Committee hope a definite policy will now be laid down for the guidance of the Executive.

14. Capital Debt.—The loans raised during the year aggregated Rs. 60 lakhs, of which Rs. 25 lakhs represented the second instalment of the Rs. 55 lakhs loan for Miscellaneous Works, Rs. 29 lakhs, the first instalment of the Rs. 70 lakhs loan for duplication of the Tansa Main and Rs. 6 lakhs, the first instalment of the Rs. 20 lakhs loan for Street Improvements. The amount paid during the year towards reduction of debt was Rs. 1,58,239. The total Capital Debt of the Corporation increased in consequence from Rs. 5,90,41,916 to Rs. 6,48,83,677. Against this debt the total Sinking Fund Investments aggregated Rs. 1,37,82,442, leaving a net debt liability of Rs. 5,11,01,235 against Rs. 4,64,02,032 in the preceding year. From the statement furnished by the Chief Accountant showing the book and market value of the paper held in the Sinking Funds at the close of the year it appears that the Sinking Funds are placed on a perfectly sound basis.

15. Stores Audit.—The Stores in stock on the last day of the year were valued at Rs. 4,25,894 against Rs. 4,50,268 in the preceding year. Of this Rs. 8,761 represented the value of surplus and obsolete stores, showing a reduction

of Rs. 18,107 on the balance in hand on the last day of the year previous. It is gratifying to note that this account has been now brought practically to a vanishing point. The stock was verified during the year by two independent verifiers and a report as to the result is awaited.

16. Test Audit.—The Chief Accountant's test audit was continued during the year and 54 reports relative to the Health Department, Road Department, Drainage Department and Fire Brigade were made. The Corporation have appointed a Committee to receive from the Commissioner all reports and correspondence regarding the test audit carried out by the Chief Accountant during the last two years and to report on the results obtained therefrom. The extra expenditure caused by the test audit operations was only Rs. 4,160 which amount, judging from the results, was well spent. The Committee hope the test audit will be extended to other departments of the Municipality.

17. Valuation of Municipal Properties.—The attention of the Commissioner was invited by the Committee, in reviewing the report for the year 1910-11, to Corporation Resolution No. 2609, dated the 28th May 1900, in accordance with which a complete inventory of all Municipal properties with details of original cost, present value, &c., should be embodied in the Administration Report once in five years. The work of revision of the valuation of the properties has since been taken in hand and was in progress during the year of report. The Committee hope the work will soon be completed.

Assessment and Collection of Taxes.

18. There was a slight decrease in the number of properties on the Assessment Book, 61,293 properties having been registered against 61,336 in the previous year. 5,756 properties were exempted from the General Tax, as being of insignificant value, against 6,442 in the year previous. The number of properties exempted under Section 143 of the Municipal Act also show a reduction from 2,175 in the preceding year to 2,061 in the year of report. On the other hand the number of Municipal properties not assessed under Section 143 of the Municipal Act increased from 1,546 to 1,571. The net result was a rise in the total number of properties assessed to the General Tax from 51,173 in the year previous to 51,905.

19. The year witnessed a further rise of nearly 25 lakhs in the rateable assessment of properties which amounted to Rs. 5,21,62,819 against Rs. 4,96,64,843 in the year previous. Opening with a gross assessment of Rs. 5,79,28,435, the year closed with an assessment of Rs. 5,79,47,463 against Rs. 5,51,71,773 in the preceding year. The number of complaints against assessment rose from 3,799 in the preceding year to 4,277, and there were 5 appeals against 3 in the previous year. Of these 2 were settled out of Court and withdrawn by the appellants. 2 were dismissed with costs, and one was pending at the close of the year.

20. Inclusive of demands in respect of previous years amounting to Rs. 5,693 the total demand on account of property taxes aggregated Rs. 85,65,949 against Rs. 85,23,174, showing an increase of Rs. 42,775. The net income amounted to Rs. 85,87,879 against Rs. 85,00,318, showing an increase of Rs. 87,561, notwithstanding the reduction of ½ per cent. in the General Tax. The outstanding balances on account of property taxes amounted to Rs. 48,549 only, a figure which compares very favourably with the average outstandings of the previous years and bespeaks great vigilance on the part of the collection department. The drawback allowed during the year was Rs. 59,156 against Rs. 56,202 in the preceding year. In all 7,549 claims for drawback were received, of which only 4,042 were admitted. The question of revising the law and rules in force regarding refunds and drawbacks is still under the consideration of a Committee of the Corporation.

21. A decrease of Rs. 66,557 is recorded in the actual receipts from the General Tax, the realization for the year being Rs. 48,85,305 against Rs. 49,51,862 in the previous year. This decrease is due to the reduction in the General Tax from 10⅝ per cent. in the previous year to 10 per cent. in the year under review. The Water Charges amounted to Rs. 22,85,434 against Rs. 21,70,949, and the proceeds from the Halalkhore Tax, inclusive of charges for special service, increased from Rs. 13,50,833 in the preceding year to Rs. 13,85,128.

22. The receipts from the Wheel Tax amounted to Rs. 5,39,167 (exclusive of Rs. 22,333 derived from the right of collecting tolls at the Mahim and Sion causeways) against Rs. 5,01,739. During the year 3,832 four-wheeled vehicles were taxed against 3,923; 939 two-wheeled vehicles against 947; 989 motor cars against 704 and 175 motor cycles against 94 in the preceding year.

23. The right of collecting tolls at the Mahim and Sion Causeways fetched Rs. 22,333 against Rs. 21,783 in the preceding year. From the statements furnished by the toll farmer, it appears that the toll was levied in respect of 1,85,275 vehicles and that the amount realized was Rs. 23,160, leaving a margin of Rs. 827 to cover the expenses of collection and interest charges. As a Municipal check has been introduced over these receipts, since October 1913 some explanation will now be forthcoming as to the considerations weighing with the toll farmers in undertaking annually the expense and labour of collecting these dues for an apparently very poor margin of profits.

24. The total collections from Town Duties for the year aggregated Rs. 40,03,254 against Rs. 38,47,929, and the refunds allowed in respect of goods exported amounted to Rs. 22,86,360 against Rs. 21,16,036, the net revenue being nearly the same as in the previous year, *viz.*, Rs. 17,16,894 against Rs. 17,31,894.

Public Works.

25. General Branch.—The Executive Engineer's Department had to carry out 60 new works of which 35 were in progress at the close of the year and 25 were not commenced at all. The work of filling in the Framji Cowasji Tank at Dhobitalao and the Cowasji Patel Tank at Khetwadi was completed during the year; while that of filling in the Mustan Tank at Nagpada was in progress at the close of the year. The work of constructing a primary school at Ardeshir Dadi Street was also in progress. The arrangements for laying out the Bhatia Bag were finally approved by the Corporation during the year and the work of laying out new paths and remodelling the garden was in hand during the year and is now nearing completion. The experimental system of fixing house number plates in prominent positions was introduced during the year and number plates have been fixed in several streets.

26. Drainage.—Throughout the year the Engines and Pumps at the Love Grove Pumping Station worked fairly well, although owing to the age of the machinery breakages were somewhat frequent. The year was one of exceptional activity for the Mechanical and Drainage Branches. The erection of the new electric generating station for driving the screening and dredging plant was completed and the sewage from the main sewer turned into the new detritus and screening chambers. The plant is reported to have been working fairly satisfactorily since July 1913. The erection of the new pumping machinery and boilers was almost completed at the close of the year and the first engine was under steam on 1st April 1914. The whole work is likely to be in full working order in the year 1914-15. The machinery at the Colaba and Love Grove Air Compressor Stations and the several Ejector Stations also worked satisfactorily throughout the year. There was, however, one serious stoppage at the Ejector Station at Chinchpokli and there were 7 bursts on the

15" C. I. scaled sewage main in Fergusson Road. The Commissioner remarks that the whole main may have to be renewed shortly. The work of constructing the first 1,100 feet length of the New Low Level Sea Outfall at Love Grove upto the low water level was commenced during the latter part of the year. Arrangements are being made to secure contractors in England to undertake the construction of the submerged portion of the Outfall. The question of diversion of the S. W. Channel from Love Grove to Worli, and the provision of pumps to serve all the S. W. Channels at Worli was fully discussed and there appears to be no possible alternative while the question of the type of pumps to be adopted is still under consideration. The work of laying a main sewer from the Sion Causeway to the new Pumping Station in connection with the Scheme for the drainage of the north of the Island as well as the works of the duplication of the main outfall sewer from Love Grove to Khetwadi Back Road and of the construction of a new sewer from Carnac Road along the new Improvement Trust Road and thence upto Grant Road in connection with the calls that may be expected to result from the introduction of the additional Tansa Water-supply were sanctioned by the Corporation towards the close of the year. The work of the sewerage of the Elphinstone Reclamation District was approaching completion. Considerable progress was also made with the scheme for the drainage of high lands from Byculla to Bhoiwada. The storm-water drain in Sopari Bag Road was completed and the drain in Reay Road from Connaught Road to Kalachauki Road was very nearly complete.

27. During the year 252 street connections were made against 208 during the preceding twelve months, at a cost of Rs. 10,500. In addition to these, 99 storm-water connections were made, at a cost of Rs. 3,357, against 65 in the preceding year. Action to get properties in the Malabar Hill District connected with the new sewers was continued. 54 common house gullies were remodelled at the cost of owners amounting to Rs. 97,666. The work of providing 26 manhole frames and covers over storm-water drains in different parts of the City was taken in hand and was in progress at the close of the year. 993 improved concrete covers were provided over storm-water entrances.

28. STREETS AND BUILDINGS.—3,525 building applications were received during the year against 3,618; 457 notices were issued for removal of unsafe buildings against 522 in the preceding year. Of these 386 were complied with. In 7 cases the structures were removed by the Municipality and 64 cases were pending at the close of the year. 23 buildings or parts of buildings fell during the year against 21 in the year preceding. In 15 cases no injury was done and in the remaining 8 cases 9 persons were killed and 14 injured. Action was taken for the removal of 445 inflammable and insanitary huts, of which 350 were removed and 95 cases were pending at the close of the year.

29. 944 prosecutions were instituted, including 497 withdrawn, against 1,314 in the previous year. In 131 cases the parties were warned and discharged, while 227 persons were convicted and fined, and 89 cases were pending at the close of the year. The amounts of fines aggregated Rs. 3,874, giving an average of Rs. 17 per head.

30. Ground measuring 9,947·53 square yards was added to the streets during the year of report against 25,829·4 square yards, the cost estimated being Rs. 3,16,225 against Rs. 3,95,102, the estimated value of the land acquired during the previous year. The small difference in cost notwithstanding the marked disparity between the areas thrown in the roadway during the two years is accounted for by the fact that nearly half of the area acquired during the preceding year was G Ward land which was valued at Rs. 69,773 only.

31. The area of roads metalled during the year was 5,772,102 square feet against 5,017,009 square feet, and the total amount spent on repairs and maintenance was Rs. 5,72,996 against Rs. 4,88,017, the rates for full metalling and

full patching working out of 10·33 pies and 7·03 pies per square foot, respectively, against 10·56 pies and 7·07 pies in the preceding year. The rates for the year under review were slightly lower notwithstanding the enhanced rates for road materials purchased during the year. Out of 167½ miles of road, 41½ miles were disturbed in connection with pipes, cables, &c. The operations of the Tramways Co., the Gas Co., the Telephone Co., and of the Tata Hydro-Electric Co., were responsible for about 23¼ miles. Roads measuring 20,491 square yards were treated with tar at a cost of Rs. 33,074.

32. Portions of Victoria Road, Mayo Road, Worli Road, Mount Road, Dadar Road, and Mori Road were widened during the year. 6 roads were taken over from the Bombay Improvement Trust and declared public and 15 private streets were also taken over and declared public. Moreover, several private streets were under action for improvement. The Committee note with satisfaction that cosiderable progress was made in providing new footpaths and in improving awkward and dangerous corners of roads. Roadside tree-planting continued to receive attention.

33. Tramways.—No extension of tramways was carried out during the year. The tram tracks along a portion of Hornby Road and the new siding along the west and south side of Bhatia Bag were remodelled and an additional siding was laid in Cruickshank Road.

34. Overbridges.—Very satisfactory progress was made with the construction of overbridges. The Clerk Road Overbridge over the G. I. P. Railway was opened to traffic during the year. The Elphinstone Road Overbridge was completed, but the Railway Authorities have had to be requested to rectify some minor defects in the work. The Currey Road Overbridge is expected to be completed in 1914-15, but the construction of the DeLisle Road Overbridge would be further delayed as the revised proposals for widening the bridge to 80 feet are still under consideration. The actual construction work of the Clerk Road Overbridge over the B. B. & C. I. Railway is expected to be taken in hand soon by the Railway Company. Detailed plans and estimates for the Dadar Road Overbridge, the location of which was settled during the year, were under preparation.

35. Survey of Bombay.—During the year the topographical survey of the Island was continued by Government Surveyors and every assistance was given to them by the Engineering Department.

36. Lighting.—For the lighting of the City 5,792 gas lamps and 1,550 Kerosene oil lamps were maintained during the year at a cost of Rs. 3,71,253 and Rs. 29,583 respectively. These figures reveal an increase of 284 in the number of gas lamps and a decrease of 228 in the number of Kerosene oil lamps and a net increase of Rs. 7,154 in the total expenditure. On the 1st July 1915 will expire the ten years' contract with the Bombay Gas Company for public lighting and the question of improving the lighting in the future has been receiving the attention of the Corporation for some time. A report on the subject has been called for from the Commissioner with special reference to the respective merits of gas and electric lighting, and the Commissioner has been authorized to carry out, in conjunction with the Bombay Gas Company and the Bombay Electric Supply and Tramways Company, experiments at several selected thoroughfares so as to ascertain the rival possibilities of the two methods of illumination under practically identical conditions. The results of these experiments will be awaited with great interest.

37. Workshops.—The value of departmental and private work turned out at the Municipal Workshops has been computed at Rs. 2,09,058 against Rs. 1,93,218 during the preceding year. the net result of the year's transactions being a balance of Rs. 2,907 against Rs. 2,333 in favour of the Workshops. The work of constructing the New Workshops at Foras

Road was still in progress. The four motor cars provided for the Engineering and Health Departments covered 28,961 miles at a running cost of 4·4 annas per mile as compared with 5·32 annas in 1912-13.

38. Water Works.—During the year Water Works were maintained in a state of efficiency. The water-proofing works at the Malabar Hill Reservoir were completed. The two reservoirs, the vaults under filters Nos. 1 to 4 and also the filters have been made water tight. In connection with the duplication of the Tansa Main, the outlet well at the reservoir is undergoing alteration and a tunnel is being constructed under Gibbs Road to accommodate the additional inlet and outlet mains from the reservoir. The Bhandarwada Reservoirs and Filters were efficiently maintained throughout the year and showed no signs of leakage. The Tansa Duplication works are progressing satisfactorily. The widening of the earth work embankments along the syphons has been completed and good progress has been made with the duplication of the syphons. All the steel pipes required for syphon No. 5 and about 5 miles of piping required for syphon No. 6, have been transported to the required sites. It is anticipated that the new 50″ steel main will be laid complete and brought into use by the end of 1915. Satisfactory progress is being made in the supply of cast-iron pipes required for the cast-iron section, and it is hoped that the laying of the same will be completed by June 1915. Owing, however, to the scarcity of labour and difficulty in obtaining suitable lime, the work of raising the Tansa Dam was considerably hampered and it will take about a year before the work is completed.

39. The rainfall for the year was better than that for the previous year. At Tansa Lake it was 93·26 inches against 88·12 in 1912, and was 4 per cent. above the average for the preceding five years; at Vehar it was 90·47 inches against 69·55 in 1912 and was 14 per cent. above the average; at Tulsi it was 94·97 inches against 77·25 inches in 1912 and was 3 per cent. above the average. The Tansa Lake overflowed on the 28th June and the Tulsi on the 25th July. The Vehar Lake did not overflow.

40. With 625 water connections newly made and 260 cut off for various reasons, the total number of connections stood at 24,460 against 23,954 at the close of the preceding year. Of these 2,989 were metered against 3,227 in the year 1912-13.

41. 1,034 underground and 25,599 aboveground leaks and defects were detected and remedied by the Waste Prevention Branch of the Water Works Department. The total length of mains examined, excluding second and subsequent tests, was 45,317 feet against 35,965 feet in the previous year, and the length including second and subsequent tests was 23,56,067 feet against 24,86,482. The work of renewing, enlarging and extending the water mains was continued during the year and 11½ miles of new pipes were laid.

Fire Brigade.

42. Despite an abnormally large number of fires and corresponding difficulties, the Fire Brigade was efficiently maintained throughout the year. A new site for the Fort Fire Brigade Station was selected on Mint Road and negotiations for its acquisition were pending. Out of the 50 Fire Alarms sanctioned by the Corporation 43 were erected during the year and worked satisfactorily.

43. There were 281 calls of which 36 were false alarms. The actual number of fires, *viz.*, 224, showed an increase of 62 compared with that for the previous year and an increase of 98·4 over the average of the preceding 10 years. Of these, 150 fires were extinguished by the Brigade and 74 were extinguished before its arrival. The water supply at fires was found to be satisfactory. Sea water was also used on several occasions. The total damage

to property is estimated at Rs. 64,75,696 against Rs. 15,20,093, in the preceding year, the highest ever recorded. The highest amount of damage in a single case was computed at Rs. 40,00,000 in the Arthur Bunder (Colaba) Fire. Of the amount of damage, Rs. 60,53,572 represented insured, and Rs. 4,22,124 uninsured property. The buildings damaged by fire numbered 53, of which 37 were insured and 16 uninsured. 9 persons lost their lives at fires, and 5 received injuries to which they subsequently succumbed. 3 firemen of the Brigade lost their lives by the collapse of a floor at a fire in Tamarind Lane. The Brigade was also requisitioned in connection with 6 cases of fallen houses, 6 persons lost their lives and 14 received slight injuries.

Public Gardens.

44. There was a rise in the number of visitors at the Victoria Gardens from 14,96,569 in the previous year to 16,65,973 in the year of report. As usual band performances were given at the Victoria Gardens, Esplanade Bandstand and Chowpatty, and continued to be popular.

45. Among the additions to the Zoo may be noted an African Lion cub presented by His Excellency Lord Willingdon, a pair of Otters by Mrs. E. Holland, a Leopard by Mr. E. F. Neilson, a Uryal by Mr. H. A. Just, a Wart Hog from South Africa by Captain Praed and an Indian Sloth Bear by Mr. A. H. A. Simcox. Another very valuable gift was received from the Chief of Manavadar Khan Shri Fatehdin Khanji and his consort, being a collection of a fine Indian Gir Lioness, a very large specimen of a Leopard and three Wild Asses. The thanks of the Corporation are due to these and other donors for their valued presents. Quite a large number of animals died during the year, the casualties during the year being 111 against 81 in 1912-13, and 45 in 1911-12. This heavy toll for which no special reasons are given indicates unfavourable health conditions and is a matter for great concern, but the Committee have no doubt that the Commissioner will take effective measures for the removal of all preventible causes of mortality among the animals.

46. Victoria and Albert Museum.—The Museum was open to the public during 313 days of the year. The total number of visitors was 832,641 against 822,577 during 1912-13, giving a daily average of 2,660 against 2,628. This is the highest average on record since the year 1910-11 and indicates the growing popularity of the Museum owing to systematic attempts made from year to year for rendering it attractive in all its branches. In the Department of Natural History Collection the work of identifying, labelling and arranging the collection of shells was completed during the year. In the Archæological section all the specimens were re-arranged and a descriptive catalogue prepared. In the Industrial and Ethnological sections many interesting additions were made. Fair progress was made in the collection of photographs, maps, etc., for the formation of an "Old Bombay Room" in the Museum.

Health Department.

47. Compared with previous years, the general climatic and health conditions of the City during the year were remarkably favourable in several respects. There was no epidemic incidence of any disease except Plague. The total death-rate was 32·47, the lowest recorded since the commencement of Plague in 1896.

48. 19,644 births were registered during the calendar year 1913 against 21,518 in the preceding year, giving a birth-rate of 20·05, the lowest since the year 1902 excepting 1907. The number of registered births does not, however, represent the whole of the infant population of Bombay, as a considerable number of children of mothers belonging to the City but born outside it and brought into the City after birth is not registered. During the year under

review 6,897 such children were vaccinated. Taking these into account as well as the percentage of the unregistered children who must have escaped vaccination owing to death or delays, the probable infant population of the City has been computed at 27,863, giving a birth-rate of 28·44 per mille against 30·44 for the twelve months preceding, and against 38·95, the birth-rate for the whole of India. The following table indicates a reduction in the birth-rate amongst the principal communities :—

Communities.	Birth-rate for 1912.	Birth-rate for 1913.
Hindus	21·13	19·07
Mussalmans	23·17	20·94
Parsees	26·56	25·77
Jews...	34·10	30·92
Native Christians	24·05	23·64
Eurasians	20·29	26·98
Europeans	19·00	17·15
Buddhists	1·73	22·49

49. Declining returns of births received during the early part of the year at once arrested the attention of the Health Department. A census was therefore taken on the 31st May 1913 of children up to 2 years of age in 47 thickly populated chawls, especially in poorer localities selected from the different Wards of the City, including 5 chawls of the City Improvement Trust. The following are a few broad facts revealed by the census :—

(1) The total population enumerated in all the 47 chawls together was 26,506 ; and the number of children upto two years of age 1,060.

(2) The number of births registered among them was 494, giving the ratio of 18·63 per 1,000 of population in the selected chawls, against 20·25 for the whole City in 1912-13 and 20·97 the average of the previous corresponding five years.

(3) The proportion of children enumerated (up to 2 years of age) to the total enumerated population was 3·99 or roughly 4 per cent.; the proportion of such children to the total population of the City by the census of 1911 was 2·28 or roughly 2·3.

(4) 514 children out of 1,060 enumerated were those born out of Bombay, *i.e.*, 48·5 per cent.; the average number of such children in the City during the last five years was 36·3 per cent. of the total number of children up to two years by the census of 1911.

(5) of the 546 children found to be born in the City, 494 or 90·47 per cent. were registered, and 52 or 9·53 escaped registration.

These deductions, coupled with the fact that during the remaining months of the year the number of registered births showed a steady increase, would appear to indicate that the decrease during the early part of the year was probably due, to a considerable extent, to the operation of several forces necessitating a temporary emigration of the female population. The statistics also revealed quite a large proportion of births that escaped registration. Heretofore this was quite an " unknown quantity."

50. As observed in the Committee's review of the report for the previous year the rise in the mortality of the City witnessed during that year turned out to be but a temporary check on the gradual improvement of the health conditions of the City. From that set-back the City fully recovered during the year under review, the total number of deaths registered being 31,806 against 38,954 in 1912 and 34,961 in 1911, giving a death-rate of 32·47 against 39·77 in 1912 and 35·69 in 1911. It is gratifying to note that as compared with the preceding decennium, the total mortality shows a reduction of 12·7 from 45·17

to 32·47. Large decreases were recorded during the year of report under cholera, diarrhœa and dysentery, diseases of the respiratory system, small-pox, tubercular diseases and fevers. The toll exacted by tuberculosis was the lowest recorded since the year 1878, the deaths recorded from this disease being 2,152 against 2,794 in the previous year. Of these, 1,633 deaths were due to Phthisis, being 546 less than in the preceding year. On the other hand the victims claimed by plague numbered 2,609 against 1,717, in the previous year. Nevertheless, the year 1913 stands out as the second best year in the history of the disease in the City, as will be seen from the sub-joined table :—

Year.	Number of Plague Deaths.
1896	1,936
1897	11,003
1898	18,185
1899	15,796
1900	13,285
1901	18,736
1902	13,820
1903	20,788
1904	15,538
1905	14,198
1906	10,823
1907	6,389
1908	5,361
1909	5,197
1910	3,656
1911	4,006
1912	1,717
1913	2,609

51. Small-pox though prevalent throughout the year did not reach epidemic proportions ; only 212 deaths from this disease were registered against 979 in the previous year. Usual facilities were provided for the vaccination of Hajis, and out of the 15,319 pilgrims who left Bombay for the Haj between May and November 11,198 (9,086 males and 2,112 females) were vaccinated in Bombay before embarkation. Facilities were also afforded to the public for vaccination, and revaccination, and 36,066 persons were vaccinated. Of these, 20,877 were primarily vaccinated and 15,189 revaccinated.

52. The total number of deaths from all the types of fevers was 3,043, showing a decrease of 542 as compared with the preceding year. Of these, 261 deaths were claimed by Malaria, being 99 less than in the year previous and 61 below the average of the previous quinquennium. The anti-malaria operations were continued during the year and resulted in 99 wells and tanks being filled in and 604 wells and tanks being covered over during the year under review. The Dhobi Talao and the Cowasji Patel Tanks were filled in and the work of filling in the Mastan Tank was in progress during the year. The work of covering and properly protecting the cisterns over public latrines and urinals in the City was completed. 51,604 tabloids of quinine hydrochloride were distributed free amongst the poor, who were visited in their homes and amongst charitable institutions in the City. A spleen census was taken, and efforts were continued to educate the public in the cause and prevalence of Malaria by lectures and demonstrations.

53. The Europeans as usual returned the lowest death-rate 16·47 against 21·43 in 1912. The death-rate amongst the Parsees was the next lowest, being 22·48 against 25·79. Amongst the Hindus the mortality was 31·92, amongst the Native Christians 32·27 and amongst the Jews 24·10. As in the previous years, the Mahomedans recorded the highest death-rate of 39·00 against 50·72 in the preceding year.

54. With the improvement in the general health conditions of the City, the infantile death-roll was considerably lighter than before. Over 46 per cent. (or 3,327 deaths) of the total decrease in mortality (7,148 deaths) was among children under 5 years of age, of whom 11,149 died during the year against 14,476 in 1912. There was also a very gratifying reduction in the total mortality among infants upto one year of age, only 7,488 deaths having been registered against 9,646 in the previous year, the average of the preceding quinquennium 1908-1912) being 8,625. The Municipal Nurses and Midwives together with the Lady Health Visitors of the Bombay Sanitary Association continued their endeavours to educate the backward classes in the up-bringing of their children. 1,200 confinements were attended by the Municipal Nurses against 949 in 1912, and their house to house visits numbered 33,791 against 38,643 in the previous year. A Committee was appointed by the Corporation to advise the Corporation as to the best means of improving the condition of women during labour and their infants during infant life and as to any other measures for reducing the infant mortality in the City. In a report recently placed before the Corporation, the Committee have indicated the measures already taken and proposed to be taken to reduce infant mortality in the City. Considering, however, the social status and habits of the bulk of the population the process of improvement will be slow.

55. 88,393 persons availed themselves of the free medical aid given by the twelve Municipal Dispensaries, against 80,106 in 1912. Of these, 1,808 patients were seen at their houses. The number of persons treated at the Aided Charitable Dispensaries at Colaba and Victoria Bunder was 8,469, of whom 30 were seen at their houses. 1,765 Notifications of Infectious Diseases were received during the year from Medical Practitioners against 1,687 during the preceding twelve months. From Hakims and Vaidyas, 34 Notifications were received and the diseases reported in 30 cases were found on investigation to be correct.

56. There has been a steady growth in the work done in the Municipal Laboratory. 7,966 articles were examined during the year showing an increase of 2,291 over the number of samples examined during the year previous. This increase is wholly accounted for by the special research on Bombay milk supply which was undertaken with a view to establishing definite milk standards for India and finding out the amount of adulteration with water and the extent of contamination with objectionable micro-organisms. The Committee will await the results of the investigation with interest. Of the 7,966 samples 2,163 were examined chemically and 5,803 bacteriologically. 93 jars of rat-poison, each having a capacity of 28 lbs., were prepared during the year. 182 jars of mercurial solution were prepared in the Laboratory, and 1,921 capillary tubes of Glycerinated Vaccine were examined as to their sterility before being used for the Vaccination Department.

57. There was a large reduction in the number of admissions to the Arthur Road Hospital. Against 1,540 admissions in the previous year there were only 791 admissions during the year of report. Of these, 203 were cases of small-pox, 52 of cholera, 140 of chicken-pox, and 23 of measles. 146 cases proved fatal. Of the 203 small-pox cases, 132 were vaccinated and 71 unvaccinated, and the incidence of mortality amongst these two sets of cases was 18·18 and 36·62 respectively, proving as usual the efficacy of vaccination in reducing the case mortality rate amongst those protected by it. The admissions to the Maratha Hospital numbered 437 against 311 in 1912. Of these, 392 were plague cases, the mortality rate amongst them being 74·74 per cent.

58. During the year 6,90,632 cart-loads of rubbish were emptied at the Tardeo Flats and other places against 7,17,806 in the preceding year, and 1,11,435 night-soil and cesspool carts and 42,16,949 night-soil baskets were

emptied at the several night-soil depôts as compared with 1,14,129 night-soil and cesspool carts and 43,63,785 night-soil baskets in the foregoing year.

Licenses.

59. The number of licenses rose from 8,336 in the previous year to 9,334 in the year of review. Heretofore licenses were granted for the whole term of the year, but during the year of report, for the first time since the entertainment of the License Department in 1890-91, licenses were granted for broken periods of the year and license fees were levied accordingly and refunds of fees levied for the year were allowed for the unexpired portions of license periods when places of licensable trades were closed or when the licenses ceased to keep licensable commodities. Despite the reduction in fees due to the facilities thus allowed to the licensees the receipts reached the unprecedented figure of Rs. 1,14,282 against Rs. 1.09,896 in the year previous.

60. The revised Bye-laws in respect of milch cattle stables were confirmed by Government towards the end of the year and steps are being taken to enforce the requirements of the new Bye-laws. The total number of prosecutions instituted during the year was 3,727 against 3,564 in the preceding year. Fines were inflicted in 925 cases and amounted to Rs. 18,415.

Markets.

61. Within the past three years the revenue from the Markets and Slaughter Houses has increased from Rs. 4,88,606 to Rs. 5,85,493. The total receipts for the year under report amounted to Rs. 5,85,493 against Rs. 5,81,035 in the previous year. The increase was principally due to a rise in the amount of Squatters' fees which counterbalanced the fall of Rs. 11,968 in the slaughter fees.

62. The quantity of unwholesome food destroyed by the Department during the year was 212,850 lbs. against 254,757 lbs. The quantity of contraband meat seized and destroyed was 3,007 lbs. against 6,726 lbs. in the previous year and 28,696 lbs. in 1911-12. The Committee are glad to learn that this contraband trade has almost ceased owing to increase supervision and the enhanced powers vested in the Municipality under the amended Section 412 of the Municipal Act.

Primary Education.

63. The year under review witnessed the opening of 14 new schools, 6 Marathi, 5 Gujarati and 3 Urdu. In all ten free schools are maintained for the depressed classes. Three Gujarati schools were opened specially for the education of the children of Halalkhores, who are charged no fee and are supplied with slates and exercise books. These schools are situated in proximity of the quarters for the Halalkhores. There has been a fair attendance at the three schools especially opened last year as an experimental measure for the education of factory children, and it is hoped that with the active co-operation of Mill Managers the experiment will meet with success.

64. The number of Municipal schools and of pupils attending them shows an increase from 160 schools with 16,746 pupils to 174 schools with 18,846 pupils. The number of aided schools and of pupils attending them also rose from 125 schools with 14,021 pupils to 134 schools with 14,772 pupils. The grant-in-aid given to these schools consequently increased from Rs. 45,167 in the preceding year to Rs. 53,005. The Schools Committee's receipt for the year aggregated Rs. 4.37,505, against Rs. 3,68,837, and the expenditure was Rs. 4,37,815 against Rs. 3,78.088, the increase being accounted for by the

opening of new schools, promotions given under the rules to trained and untrained teachers, provision of better quarters for some schools, registration of new schools for grant-in-aid and the re-assessment of the grant for some of the schools already on the register. Out of the combined Municipal and Government grants for the construction of school buildings, twelve schools in all have been provided with special buildings and a building is under construction for the accommodation of the Khetwadi A. V. School. Sites have been selected for additional buildings for the accommodation of a few more schools.

65. The proportion of trained teachers to untrained teachers was 187 to 150 in Marathi schools. In the Gujrati schools, however, it was 52 to 125 and in Urdu schools, 18 to 159. Efforts are being made to increase the proportion of trained teachers. A preliminary physical census of pupils in some of the Municipal schools was undertaken under the direction of the Executive Health Officer and having regard to the conditions disclosed by the census it was decided to employ, as an experimental measure, a qualified staff for the purpose of holding a thorough medical inspection of the pupils attending the Municipal schools.

Conclusion.

66. In conclusion the Standing Committee have much pleasure in putting on record their appreciation of the successful administration of Municipal affairs during the year by Mr. P. R. Cadell, C.I.E., I.C.S., and by Mr. J. Crerar, I.C.S., and Mr. H. B. Clayton, I.C.S., who, respectively, held the charge of the office during his absence.

COWASJEE JEHANGIR (JUN.),
Chairman of the Standing Committee.

MUNICIPAL CORPORATION OFFICE,
Bombay, 28th October 1914.

Annual Administration Report of the Municipal Commissioner for the City of Bombay for the year 1913-1914.

Introductory.

1. Mr. P. R. Cadell, C.I.E., I.C.S., held the Office of the Municipal Commissioner for the City of Bombay from 1st April 1913 to 15th July 1913, which he resigned with effect from 16th July 1913, and Mr. J. Crerar, I.C.S., was appointed Municipal Commissioner from that date. Mr. Crerar resigned the appointment on 19th October 1913 and Mr. Cadell was again appointed Municipal Commissioner from that date.

2. Mr. Cadell was on combined leave from 3rd November 1913 to 26th June 1914 and Mr. Crerar acted for him from 3rd November 1913 to 19th November 1913. As Mr. Crerar proceeded on combined leave from 20th November 1913, Mr. H. B. Clayton, I.C.S., was appointed Acting Municipal Commissioner from that date and he continued to hold the appointment throughout the remaining portion of the year.

3. Mr. J. Crerar, I.C.S., held the Office of the Deputy Commissioner from 22nd April 1913 to 15th July 1913 and again from 19th October 1913 to 2nd November 1913.

4. The general health of the City was satisfactory during the year.

I.—Corporation and Standing Committee.

THE CORPORATION.

5. Mr. A. M. Tod was appointed President of the Corporation at the Meeting held on the 3rd April 1913, and held that appointment throughout the year.

6. Fifty-two meetings of the Corporation and eighty-nine meetings of the Committees of the Corporation other than those of the Standing Committee, were held.

7. The changes that took place during the year in the personnel of the Corporation were as follows :—

Mr. Shapoorjee Sorabjee Mistry died on the 10th May 1913, and in his place Mr. Jehangir Bomanjee Petit was elected by the Rate-payers of A Ward on the 11th June 1913.

Mr. M. M. S. Gubbay, I.C.S., resigned on the 1st November 1913 and in his place Mr. Balcrishna Wassoodew Pandoorung was appointed by Government on the 8th November 1913.

Mr. Jaffer Joosab resigned on the 10th December 1913 and in his place Mr. Cassamally Jairajbhoy Peerbhoy was elected by the Rate-payers of E Ward on the 23rd January 1914.

Mr. James Macdonald resigned on the 11th February 1914 and in his place Major W. Glen Liston, C.I.E., I.M.S., was elected by the Justices of the Peace on the 26th March 1914.

Mr. Donald Fraser died on the 13th February 1914 and in his place Mr. Byramjee R. B. Jeejeebhoy was elected by the Justices of the Peace on the 10th March 1914.

Lt.-Col. M. A. T. Collie resigned on the 19th March 1914.

8. The following Councillors were absent from the meetings of the Corporation for the period shown below for reasons approved by the Corporation under Section 17 (*b*) of the Municipal Act :—

Name.	Period.
Sir Dinshaw Maneckji Petit, Bart. ...	From 1st June to 30th November 1913.
Mr. S. M. Edwardes, C.V.O., I.C.S. ...	From 3rd May to 31st October 1913.
Mr. F. F. Gordon	From 1st May to 31st October 1913.
The Hon'ble Mr. J. A. D. McBain ...	From 19th April to 15th November 1913.
Mr. James MacDonald	From 21st July 1913 to 10th February 1914.
Mr. J. S. Wardlaw Milne	From 3rd May to 30th November 1913.
Mr. Mirza Ali Mohammed Khan, M.A., LL.B.	From 19th April to 15th November 1913.

THE STANDING COMMITTEE.

9. The Hon'ble Mr. Fazulbhoy M. Chinoy was appointed Chairman of the Standing Committee at the meeting held on the 9th April 1913, and held that appointment throughout the year.

10. There were fifty-two regular meetings of the Standing Committee and twelve meetings of the Sub-Committees thereof.

11. There were forty-nine attendances of members for the Audit of Municipal Accounts and sixty-five for cheque signing.

12. The changes that took place during the year in the personnel of the Standing Committee were as follows :—

Mr. S. M. Edwardes, C.V.O., I.C.S., resigned on the 1st May 1913 and in his place Mr. Vasantrao Anandrao Dabholkar was elected by the Corporation on the 1st May 1913.

Mr. James McDonald resigned on the 18th July 1913 and in his place Mr D. M. Inglis was appointed by Government.

13. The following is the list of Municipal Councillors who held Office on the 31st March 1914 :—

MR. A. M. TOD, J.P., *G*, *President*.

ABDUL HUSSEIN ADAMJI PEERBHOY, THE HON'BLE MR., J.P., *R* (C Ward.)
ABDUL SATAR AYUB GAYA, DR., L.M. & S., *R* (B Ward.)
BALKRISHNA WASSOODEV PANDOORUNG, MR., J.P., *G*
BAPTISTA, JOSEPH, MR., L.C.E. (Bombay), B.A., LL.B. (Cantab.), BAR-AT-LAW, *R* (E Ward).
‡§ BHALCHANDRA KRISHNA BHATAWADEKAR, SIR, KT., L.M., J.P., *R* (D Ward.)
BYRAMJEE R. B. JEEJEEBHOY, MR., J.P., *J*.
CASSAMALLY JAIRAJBHOY PEERBHOY, MR., J.P., *R* (E Ward.)
†§ CHIMANLAL H. SETALVAD, THE HON'BLE MR., B.A., LL.B., J.P., *U*.
* CHUNILAL VIJBHUKANDAS MEHTA, MR., M.A., LL.B., *R* (C Ward.)
* COWASJI JEHANGIR READYMONEY, MR., B.A. (Cantab.), J.P., *J*.
*‡ DAVID, SASSOON, SIR, BART., J.P.
D'MONTE, D. A., THE HON'BLE DR., M.D., L.R.C.P. (London), L.M. & S., M.R.C.S., J.P., *G*.
DHARAMSI JETHABHAI THACKER, MR., B.A., LL.B., *R* (D Ward).
DINSHA BOMANJI PESTONJI MASTER, DR., L.M.& S., J.P., *R* (C Ward).
††§ DINSHA EDALJI VACHA, MR., J.P., *R* (A Ward).
DINSHAW MANOCKJI PETIT, SIR, BART., J.P., *J*.
EDWARDES, S. M., MR., C.V.O., I.C.S., J.P., *J*.
ELLAPA BALARAM, RAO BAHADUR, J.P. (F Ward.)
§ FAZULBHOY CURRIMBHOY EBRAHIM, THE HON'BLE SIR, KT., J.P., *R* (G Ward)
* FAZULBHOY MEHERALLY CHINOY, THE HON'BLE MR., J. P. *G*. (*Chairman, Standing Committee*).
GORDON, F. F., MR., J.P., *J*.
GULAM HUSEN CURRIMBHOY EBRAHIM, MR., J.P., *J*.
HAJI SULEMAN ABDUL WAHED, MR., J.P., *G*.
HIRALAL DAYABHOY NANAVATI, MR., B.A., LL.B., *R* (D Ward.)
HORMUSJI PIROJSHA MODY, MR., M.A., LL.B., *R* (D Ward.)
HOOSAINBHOY ABDOOLABHOY LALLJEE, MR. *R* (B Ward.)
††‡ IBRAHIM RAHIMTOOLA, THE HON'BLE SIR, KT., C.I.E., J.P., *R* (B Ward).
* INGLIS, D. M., MR., J.P., *CC*.
JAMSETJI ARDASEER WADIA, MR., J.P., *J*.
JAMSETJI JEJEEBHOY, THE HON'BLE SIR, BART., J.P., *J*.
JEHANGIR BOMANJEE PETIT, MR., J.P., *R* (A Ward).
JEHANGIR DOSABHAI FRAMJI, MR., I.S.O., J.P., *G*.
† JEHANGIR J. CURSETJI, DR., M.D., L.R.C.P., L.R.C.S., *R* (C Ward).
KARAMALI PEERBHAI HAJI, MR., J.P., *R* (B Ward).
KAVASJI EDALJI DADACHANJI, DR., L.M. & S., J.P., *R* (D Ward).
† KAZI KABIRUDDIN, MR., BAR.-AT-LAW, J.P., *R* (E Ward).
KHIMJI HIRJI KAVANI, MR., *R* (B Ward).
LISTON, W. GLEN, MAJOR, C. I. E., I. M. S., J.P., *J*.
MOBAIN, J. A. D., THE HON'BLE MR., J. P., *R* (A Ward).
MADHAVJI VIRJI, MR., B.A., LL.B., *R* (E Ward).
MAHOMEDBHOY CURRIMBHOY EBRAHIM, MR., J.P., *G*.
MAHAMEDBHOY DATOOBHOY EBRAHIM, MR., J.P., *R* (B Ward).
MAHOMEDBHOY HAJIBHOY LALJI, MR., J.P., *J*.
MILNE, J. S. WARDLAW, MR., J.P., *CC*.
MIRZA ALI MOHAMMED KHAN, MR., M.A., LL.B., J.P., *G*.
MORESHWAR CHINTAMAN JAVLE, DR., J.P., *R* (G Ward).
MOSES, E., DR., M.D., J.P., *G*.
MULJI B. BARBHAYA, MR., J.P., *R*.
§ MUNMOHUNDASS RAMJI, THE HON'BLE MR., J.P., *R* (C Ward).
* NADIRSHAW H. E. SUKHIA, DR., L.M. & S., L.V.SC., M.R.S.I. (London), J.P., *R* (A Ward).
*† NARAYEN VISHVANATH MANDLIK, MR., B.A., LL.B., J.P., *J*.
‡ NOWROSJI JEHANGIR GAMADIA, MR., J.P., *R*. (A Ward).
ORR, J. J., THE HON'BLE MR., C.S.I., I.C.S., J.P., *G*.
§ PHEROZESHAH MERWANJEE MEHTA, THE HON'BLE SIR, K.C.I.E., M.A., BAR.-AT-LAW, J.P., *J*.
*PHIROZE CURSETJI SETHNA, MR., J.P., *J*.
POONSEY HIRJI MEISHERI, DR., L.M. & S., *R* (B Ward.)
RAHIMTULA CURRIMBHOY, MR., B.A., *R* (F Ward.)
RAMCHANDRA BHASKAR MANTRI, MR., J.P., *R* (D Ward).
RAMKRISHNA SHRIKRISHNA NAVALKAR, MR., B.A., LL.B., *R* (C Ward.)
RATANSHA TEMULJI NARIMAN, DR., M.D., F.R.M.S., J.P., *J*.
SALE, E. L., MR., I. C. S., J. P., *G*.
* SALEBHOY KARIMJI BAHODAWALLA, MR., J.P., *R* (E Ward).
*SHAVAKSHA SORABJI PATTLIWALA, DR., L.M. & S., J.P., *R* (F Ward)
SHERIF DEVJI KANJI, MR., *R* (B Ward).
SIMKIN, F. H., MR., J.P., *G*.
SOONDERDAS NARANDAS, RAO BAHADUR, B.A., LL.B., J.P., *R* (C Ward).
TEMULJI BHIKAJI NARIMAN, DR., L.M., F.R.M.S. (London), J.P., *U*.
* VASANTRAO ANANDRAO DABHOLKAR, MR., J.P., *G*.
VITHALRAO KRISHNAJI VANDEKAR, RAO BAHADUR, J.P., *J*.
* WHYTE, A. H., MR., J.P., *G*.

NOTE.—The letters against the names signify—*R*, that the Member was elected by the Ratepayers; *J*, by the Bench of Justices; *CC*, by the Chamber of Commerce; *U*, by the University; and *G*, appointed by Government.

NOTE.—The marks against the names signify—*, Member of the Standing Committee; †, Member of the Schools Committee; ‡, Member of the Board of the City of Bombay Improvement Trust; §, Member of the Board of the Victoria Jubilee Technical Institute.

II.—HEADS OF DEPARTMENTS.

14. Mr. H, J. Trivess Smith, M.I.C.E., M.I.M.E., Hydraulic Engineer, was on combined leave from 16th June to 2nd October 1913, during which period Mr. A. T. East, A.M.I.C.E., Senior Assistant Engineer, conducted the duties of the Hydraulic Engineer, in addition to his own.

15. Mr. B. H. Hewett, A. M. I. C. E., Deputy Executive Engineer, Mechanical Branch, was on combined leave from 5th May to 4th November 1913, during which period Mr. Gordon P. Cable, 1st Engineer, Love Grove Pumping and Compressor Stations, acted for him.

16. Mr. W. E. Waite, Chief Accountant, was on combined leave upto 14th October 1913, and Mr. R. Peel continued to act for him.

17. Mr. Sorabji B. Master, Revenue and Refund Audit Officer, retired from service on 1st April 1913, and Mr. Rustamji N. Coyaji, Assistant to the

Revenue and Refund Audit Officer, was appointed in his place.

18. Mr. L. W. Michael, Superintendent of Markets, was on combined leave from 15th May to 7th November 1913, during which period Mr. R. G. Robottom, 1st Assistant Assessor, acted for him.

19. Mr. Cecil L. Burns, Curator and Secretary, Victoria and Albert Museum, was on leave from 15th April to 14th November 1913, and Mr. J. Nelson Fraser, M. A., Principal of the Secondary Training College, Bombay, was appointed to act for him. Mr. Fraser resigned on the 8th October 1913 and Mr. E. R. Fern, Acting Vice Principal of the Sir J. J. School of Art, Bombay, was appointed to act for Mr. Burns during the remaining period of the leave.

20. Mr. N. B. Masani, Secretary, Schools Committee, was on privilege leave from 5th November to 23rd December 1913, during which period Mr. N. G. Welinkar, M. A., LL.B., Superintendent, Municipal Schools, acted for him.

21. Rao Saheb Anandrao Wamon Shete, Assistant to Commissioner and Superintendent of Printing and Stationery, retired from service on 1st April 1913 and Mr. B. Rama Rao, Head Clerk, Commissioner's Office, was appointed in his place.

22. The following officers continued in their respective appointments throughout the year :—

Mr. James W. Mackison, B.Sc., M.I.C.E., Executive Engineer.

Mr. N. Maughan, M.I.C.E., M.R.S.I., Deputy Executive Engineer, Drainage.

Dr. J. A. Turner, M.D., D.P.H., Executive Health Officer.

Mr. B. D. Banaji, Assessor and Collector.

Mr. R. N. Coyaji, Revenue and Refund Audit Officer.

Mr. R. P. Masani, M.A., Municipal Secretary.

Mr. P. P. Vagh, Superintendent of Licenses.

Mr. T. C. Greenop, Chief Officer, Fire Brigade.

Mr. C. D. Mahaluxmivala, Superintendent of Gardens.

Mr. A. G. Christiansen, M.S.E., A.M.I.M.E., Storekeeper.

Mr. Maneksha Cawashah Talyarkhan, Deputy Accountant.

Mr. B. Rama Rao, Assistant to Commissioner and Superintendent of Printing and Stationery.

III.—Financial.

I.—General.

23. The position of the Municipality despite the reduction in the General Tax was eminently satisfactory as the year's accounts reveal a substantial rise in the annually growing revenue.

Working Cash and Surplus Cash Balances.

The year opened with a working cash balance of Rs. 46,29,577. The income for the year aggregated Rs. 1,28,76,501 while the expenditure amounted to Rs. 1,20,48,926, the result being a surplus of Rs. 8,27,575.

Out of this surplus, Rs. 1,00,000 were utilised for the write-off of the balance of Plague Expenditure outstanding in the Loan Funds Accounts. The year closed with a working cash balance of Rs. 53,81,525, of which Rs. 10,08,232 is reserved for lapsed grants required to be renewed in 1914-1915. The

Surplus Cash Balance at the close of the year thus amounted to Rs. 43,73,293 including the minimum of Rs. 1,00,000 required by law and Rs. 9,73,000 earmarked for payment to the City Improvement Trust on 1st May 1914. From this balance hypothecations to the extent of Rs. 7,78,746 were made to finance projects payable out of Loan Funds in the absence of special provision of funds in a loan.

II.—Income.

Income compared with 1912-1913.

24. During the year the General Tax was reduced from 10⅝ per cent. to 10 per cent., while the other rates of taxation continued to be the same as in the preceding year, but notwithstanding the reduction there was an increase in our revenues due to the expansion and prosperity of the city. The income realised during the year exceeded that of the previous year by Rs. 1,34,912, the increases being principally derived from "Wheel Tax and Tolls," "Tobacco Duty," "Halalkhore Tax," "Water Tax" and other "Miscellaneous Water Works Revenue," "Market Receipts," "Miscellaneous Fees" and "Interest on Investments of Surplus Loan and other balances." The reasons for the increases have been explained by the Chief Accountant in para. 25 of his report, the permanent expansion of our revenue for the year being placed by him at Rs. 4,00,000, *vide* paras. 26 and 27 (*ibid*). There was a rise in the incidence of taxation per head of population from Rs. 11-8-5 in 1912-1913 to Rs. 11-10-5 in the year under report.

Income compared with Estimates.

25. As compared with the Budget Estimates the receipts were in excess by Rs. 6,57,791. The details of the increases will be found treated of in paras. 19 to 23 of the Chief Accountant's report. As compared with the Revised Estimates, there was an increase in income of Rs. 2,62,291 the reasons for which have been explained in para. 24 of the Chief Accountant's report.

III.—Expenditure.

Expenditure compared with grants.

26. Excluding the item of Rs. 1,00,000 the amount specially provided in the Revenue Budget for the write-off of the balance of Plague Expenditure advanced from Loan Funds, the actual expenditure during the year under review amounted to Rs. 1,20,48,926 against sanctioned grants aggregating Rs. 1,33,19,020 leaving an unexpended balance of Rs. 12,70,094 of which grants amounting to Rs. 10,08,232 require to be renewed and Rs. 2,61,862 represent the net savings on the final estimate.

Savings & Renewals.

27. The percentages of grants allowed to lapse and of savings in expenditure are too large. Although many factors intervene which cannot be foreseen, such as scarcity of labour, delays in sanction and in securing the land on which the works are to be carried out, and difficulties connected with the letting of contracts, it should be possible in future to bring about a closer approximation of actuals to the estimates than has been the case of recent years.

Additional grants.

In regard to "Additional Grants" these were satisfactorily maintained at as low a figure as possible and will in 1914-15 be kept within very narrow bounds.

Comparison with 1912-1913.

28. As compared with last year, there was an excess of Rs. 3,67,339; the increases aggregated Rs. 7,70,090 and the decreases Rs. 4,02,751. The variations have been dealt with in para. 40 of the Chief Accountant's report. The Chief Accountant estimates the permanent increase in expenditure at Rs. 5,05,000 as explained in para. 41 and the expansion in Income at Rs. 4,00,000 as stated in para. 27. The recurring expenditure thus advanced somewhat more rapidly than the permanent increase in our Income.

The General financial position has been reviewed in para. 85 of the Chief Accountant's report. It is necessary to remember that although there is a steady increase in expenditure there is also an expansion in our rateable value, and that for our future requirements we have a wide margin of borrowing powers approaching, if not exceeding, two Crores.

IV.—Loan Works Expenditure.

Loan Works Expenditure.

29. The expenditure on Loan Works amounted to Rs. 43,87,475 against Rs. 17,87,921 in the preceding year, the increase being under Water Works due mainly to accelerated outlay on the Tansa Reduplication Works. There were large lapses on both the original and the revised estimates as pointed out by the Chief Accountant in para. 51 of his report.

c c

V.—Plague Expenditure.

Plague Expenditure.

30. The expenditure on Plague measures during the year amounted to Rs. 1,24,682 showing a decrease of Rs. 23,081 on the expenditure of the previous year which also showed a considerable decrease on the preceding year. This occurred principally in the outlay on Disinfection, Maintenance of Camps and Rat Destruction. The total outlay on Plague Measures from the outbreak of Plague upto the close of the year under review aggregated Rs. 78,46,895, as pointed out in para. 52 of the Chief Accountant's Report.

VI.—Capital Debt.

Debt.

31. During the year Loans aggregating Rs. 60 Lakhs were raised of which Rs. 25 Lakhs were reserved by us at par for Sinking Fund and Surplus Funds Investments, Rs. 29 Lakhs were issued to the public at an average rate of Rs. 98-12-3 and Rs. 6 Lakhs were issued at an average rate of Rs. 98-8-2, the resulting loss of Rs. 44,745 being met from the Net Premia Fund. The capital liabilities of the Corporation increased to Rs. 6,50,41,916, but the payment of Rs. 1,58,239 made by the Municipality during the year towards the reduction of debt reduced the liabilities to Rs. 6,48,83,677 at the close of the year.

Sinking Fund.

Sinking Fund.

32. Against this debt the total Sinking Fund invested during the year amounted to Rs. 1,37,82,442 leaving a net debt liability of the Corporation at the close of the year at Rs. 5,11,01,235. From appendix No. 7A attached to the Chief Accountant's report, it will be seen that the aggregate total of the different Sinking Fund Investments on 31st March 1914 was in excess of the amount, which should have accumulated for the purpose for which the funds have been created, by Rs. 8,084. The market value of the paper held in the Sinking Fund is on the whole well in advance of the face value (*vide* para. 50 of the Chief Accountant's report).

VII.—Assets and Liabilities.

33. The Assets and Liabilties of the Municipality at the close of the year as compared with the preceding year stand as follows:—

	At the close of 1912-13.	At the close of 1913-14.	Increase.	Decrease.
	Rs.	Rs.	Rs.	Rs.
Assets	9,16,90,537	9,99,87,189	82,96,652	.....
Liabilities	7,57,51,644	6,84,07,859	.....	73,43,785
Excess of Assets over Liabilities...	1,59,38,893	3,15,79,330	82,96,652	73,43,785

The items making up the Assets as also the reasons for the increase in Assets and decrease in Liabilities are given in paras. 54 and 55 of the Chief Accountant's Report.

Of the total liabilities, Rs. 6,48,83,677 represented the Capital Debt, Rs. 13,87,467 deposits lodged by contractors and others, Rs. 42,142 undischarged liabilities and other items, and Rs. 17,15,289 book value of the land transferred to the City Improvement Trust.

The revision of our assets is in progress. When it is completed and all properties that have ceased to exist are struck off the books, and those acquired by gift or through revenue are properly accounted for, our accounts will show the correct balance of assets over liabilities.

Stores Accounts.

34. The reserve stock of stores on 31st March 1914 amounted to Rs. 4,25,894 of which Rs. 8,761 represented the value of Surplus and Obsolete stores. Reserve Stores.

During the year the current serviceable stores stood at Rs. 3,01,349 against Rs. 3,01,553 in the preceding year. The balance of surplus and obsolete stores has been reduced to Rs. 8,761. This satisfactory result was due to the efforts of all concerned to keep down the balances and confine the purchases of the year as far as possible to the requirements.

The stock was verified during the year by two independent verifiers and the results will be reported in due course to the Corporation.

Street Improvements.

35. The total liabilities on account of set-backs acquired and to be acquired have advanced to Rs. 20,92,540 up to the 30th June 1914. Out of the Loan of Rs. 20 lakhs sanctioned for Street Improvements we have raised only 6 lakhs and it will be seen that the sanctioned balance has been exceeded by nearly 7 lakhs. The question of these liabilities is under consideration. Street Improvements.

Test Audit.

36. The Chief Accountant's Test Audit was continued throughout the year and was mostly confined to the halalkhore service of the Health Department with the result shown in paras. 87 to 94 of his report. The present staff for carrying out this work efficiently is not sufficient. Test Audit.

Miscellaneous Funds.

37. The Net Premia, Fire Insurance and Worn-out water mains renewal funds were all in a satisfactory condition at the close of the year, as will be seen on a reference to paras. 62 to 64 of the Chief Accountant's report. The amount to the credit of the Net Premia Fund stood at Rs. 1,44,250 at the close of the year as against Rs. 2,05,858 of the preceding year, the decrease being due to the payment of Discount, Stamp, Printing, &c., charges in connection with the Loans raised during the year. The Premia.

The Municipal Buildings Fire Insurance Fund stood at Rs. 1,82,857 and the balance in the Worn-out water mains renewal fund stood on the 31st March 1914 at Rs. 5,40,012. Fire Insurance Fund. Water Mains Renewal Fund.

The surplus to the credit of the Fire Tax amounted at the close of the year to Rs. 1,69,045 (*vide* para. 95 of the Chief Accountant's Report).

38. As required by the Standing Committee's Resolution No. 12212, dated 3rd February 1892, the net Revenue and net Expenditure for 1913-14 and the preceding year are given in the following statement :—

Particulars.	1912-13.	1913-14.
Net Revenue after deducting Refunds, Drawbacks and charges in respect of Assessment and Collection and granting of Refunds.	Rs. a. p.	Rs. a. p.
General Tax	46,05,168 13 2	45,30,344 2 11
Fire Tax	.....	74,761 4 7 c c
Wheel Tax and Tolls	5,17,313 10 6	5,55,215 6 2
Town Duties	15,60,862 12 11	15,44,941 6 11
Receipts from Government for Liquor Licenses and Tobacco Duty	4,27,275 12 0	4,35,033 3 11
Water Revenue (net)	2,18,415 5 7	3,38,522 0 2
Market Receipts	3,89,198 12 2	4,03,001 7 4
Returns from other Property and Miscellaneous	5,56,641 12 1	4,01,279 1 8
Net Receipts ... ... Rs.	82,74,876 14 5	82,83,098 1 8
Net Expenditure after deducting Receipts.		
General Superintendence	2,74,400 7 10	2,72,309 5 1
Fire Brigade	88,545 12 8	.....
Public Gardens	63,624 2 6	69,758 11 8
Public Works (Engineering Department excluding Water Works)	19,28,004 3 6	21,92,275 8 6
New Works (excluding Water Works)	1,34,385 5 10	1,96,668 2 5
Public Health Department (excluding Markets)	6,35,517 3 9	5,53,238 2 6
Municipal Debt (excluding Water Works)	18,27,222 5 4	18,60,570 13 10
Education	4,18,507 2 3	4,85,284 10 6
Hospitals	4,46,160 0 0	4,41,840 0 0
Pensions, Gratuities and Compassionate Allowances	56,056 14 2	66,709 13 11
Miscellaneous	2,69,688 0 7	2,60,092 8 6
Contribution to the City Improvement Trust	9,25,000 0 0	9,32,093 10 11
Plague Expenses	1,47,763 0 2	1,24,682 0 9
Net Expenditure ... Rs.	72,14,874 10 7	74,55,523 8 7
Surplus	*10,60,002 3 10	†8,27,574 9 1
Total ... Rs.	82,74,876 14 5	82,83,098 1 8

* This surplus includes Rs. 3,10,053 sanctioned for the further write-off of a portion of the Plague Expenditure advanced from Loan Funds.

† This surplus includes Rs. 1,00,000 sanctioned for the write-off of the balance of Plague Expenditure paid from Loan Funds.

39. The Revenue, Expenditure and Balances of the last five years have been contrasted in the following table :—

	1909-10.	1910-11.	1911-12.	1912-13.	1913-14.
	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue	(*a*) 1,12,13,864	(*d*) 1,21,96,149	(*f*)1,26,55,789	(*j*) 1,27,41,589	(*n*) 1,23,76,501
Expenditure	(*b*) 1,13,97,050	1,12,81,872	(*g*) 1,14,84,562	(*k*) 1,16,81,587	(*o*) 1,20,48,926
Closing balance (including recoverable advances to Loan Works, Reserve Stock, &c., and excluding Minor Deposits, &c.) ...	(*c*) 28,55,404	(*e*) 36,58,663	(*h*) 43,29,894	(*l*) 50,79,844	(*p*) 58,07,419
Add—Recoverable Revenue outstanding ...	1,01,232	1,05,400	62,797	43,679	42,218
	29,56,636	37,64,063	43,92,691	51,23,523	58,49,637
Deduct—Uncompleted Works, &c., and unexpended balances of the grants which were required for payment in the following year ...	5,67,953	6,61,178	(*i*) 8,96,295	(*m*) 10,17,956	(*q*) 10,08,232
Net Working Balance available for requirements of the following year	(*c*) 23,88,683	(*e*) 31,02,885	(*h*) 34,96,396	(*l*) 41,05,567	(*p*) 48,41,405

(*a*) In this year the General Tax was raised from 8 to 9¼ °/₀. There was also an increase in the Town Duties.

(*b*) Includes large increases principally under General Superintendence, Public Gardens, New Works, Contribution to the C. I. Trust, Education, Miscellaneous and Debt.

(*c*) Excluding Rs. 6,58,864 on account of the value of Reserve Stock on hand on 31st March 1910, the net closing balances amounted to Rs. 21,96,540 and Rs. 17,29,819 respectively.

(*d*) In this year the General Tax was raised from 9¼ °/₀ and Fire Tax from ¾ °/₀ to 10¼°/₀ and ¼°/₀ respectively. The Town Duty on grain also was increased from As. 4 to As. 6 and the maximum duty of As. 2 per Khandy imposed on firewood.

(*e*) Excluding Rs. 5,09,340 on account of the value of Reserve Stock on hand on 31st March 1911, the net closing balances amounted to Rs. 31,49,323 and Rs. 25,93,545 respectively.

(*f*) Notwithstanding that the rates of taxation continued to be the same as in last year, there were large increases under "Taxation Proper" and "Services rendered" and also under "Returns from Property & Miscellaneous."

(*g*) Includes increases principally under Public Works, New Works, Health Department, Contribution to the C. I. Trust and Debt.

(*h*) Excluding Rs. 4,60,542 on account of the value of Reserve Stock on hand on 31st March 1912, the net closing balances amounted to Rs. 38,69,352 and Rs. 30,35,854, respectively.

(*i*) Includes the large amounts required to be renewed under Fire Brigade, New Works and Public Health on account of supplies of engines, pipes, motors, etc., having been delayed owing to strikes in England.

(*j*) Notwithstanding the transfer of interest realized on Sinking and Special Funds to a suspense head and that the rates of taxation continued to be the same as in the preceding year, there were large increases under "Taxation Proper" and "Services rendered."

(*k*) This is exclusive of the investment of the interest realized on Sinking and other funds transferred to a suspense head. It includes, however, increases principally under "General Superintendence," "Assessment and Collection Department," "Fire Brigade," "Public Works," "Health Department," "Miscellaneous," "Contribution to the City Improvement Trust" and "Debt."

(*l*) Excluding Rs. 4,50,267 on account of the value of Reserve Stock on hand on 31st March 1913, the net closing balances amounted to Rs. 46,29,577 and Rs. 36,55,300, respectively.

(*m*) Includes the large amounts to be renewed chiefly under New Works, Public Works, Health Department, Gardens, Debt and Miscellaneous.

(*n*) Despite the reduction in the General Tax from 10-5/8 °/₀ to 10 °/₀ there were increases under "Taxation Proper", "Services rendered" and "Returns from Property and Miscellaneous." This figure is exclusive of interest realised on Sinking and Special Funds.

(*o*) This is exclusive of Rs. 1,00,000 utilised for the write-off of the balance of plague expenditure advanced from Loan Funds. It also excludes the investments of interest realised on Sinking and other funds.

(*p*) Excluding Rs. 4,25,894 on account of the value of Reserve Stock on hand on 31st March 1914, the net closing balances amounted to Rs. 53,81,525 and Rs. 44,15,511 respectively.

(*q*) Includes the large amounts to be renewed chiefly under New Works, Public Works, Gardens, Public Health Department and Debt.

IV.—Assessment and Collection of Revenue.

40. The total amount collected under all heads, exclusive of miscellaneous receipts and toll-fees, was Rs. 87,43,767-7-9 against Rs. 86,99,671-3-3 last year showing an increase of Rs. 44,096-4-6. The final gross assessment was Rs. 5,79,47,463 against Rs. 5,51,71,773. This was assessed on 61,293 properties against 61,336 properties in the previous year. The assessment for

General Tax was Rs. 4,98,20,659 against Rs. 4,74,00,118 for the previous year, giving an increase of Rs. 24,20,541. The number of buildings newly erected, demolished and enlarged was 933, 823 and 330 respectively. Complaints against assessment were 4,277 against 3,799 in the previous year. The demand for the water rate was Rs. 21,78,008 against Rs. 21,18,830, showing an increase of Rs. 59,178.

41. The demand for Halalkhor service was Rs. 14,00,174 against Rs. 13,54,792, showing an increase of Rs. 45,382. In all the total demand for property taxes was Rs. 85,65,949. From this sum Rs. 59,155 were allowed as one-fifth drawback of the General Tax, the result of 7,549 claims. The outstandings on the 31st March 1914 were Rs. 4,970 on account of former years and Rs. 43,579 for the year under report, making a total of Rs. 48,549 against Rs. 51,581 of the previous year.

42. The tax on vehicles and animals showed an increase, the demand being Rs. 2,41,332 against Rs. 2,34,858 in the previous year. Out of the total demand, including previous years' arrears of Rs. 2,43,466, Rs. 1,422 were outstanding at the end of the year. Nine hundred and eighty-nine motor cars and 175 motor cycles were taxed.

43. Miscellaneous receipts amounted to Rs. 37,776 against Rs. 36,464 while receipts from the toll rights at the Mahim and Sion Causeways amounted to Rs. 22,333 against Rs. 21,783 in the previous year.

44. There were five appeals to the Chief Judge of the Small Causes Court of which two were settled out of Court, and withdrawn by the appellants, two were dismissed with costs and one was pending at the close of the year.

45. The work of the department was successfully carried on throughout the year—the very small amount of outstandings is especially creditable. There can, however, be no doubt that many properties are still not assessed at their full value.

REVENUE AUDIT.

46. The books and balances of the Ward Clerks in the several Ward Offices were duly examined at the end of each quarter and the bills were checked in detail after comparison with the Head Office accounts. The Assessment Books in the Head Office were also examimed to ascertain that no property liable to taxation had escaped assessment. The Vehicle and Animal Tax book, maintained under Section 186 of the Municipal Act, was examined and checked. The revenue from the tax on Public Land Conveyances, licensed by the Commissioner of Police under Act VI of 1863, was audited and certificates of issue of licenses supplied by that officer checked with the register kept in the Chief Accountant's Office. The books of the Toll Farmers at Sion and Mahim Causeways were checked as were the revenue receipts and vouchers of the different departments. From 1st October 1913 a Municipal check over the Toll Farmers' receipts was introduced by utilizing the services of the Town Duty Export Inspectors at the two causeways and with an additional Inspector at each place for night work. The number of claims to one-fifth drawback under Section 158 (2) of the Municipal Act scrutinized aggregated 7,549, of which 4,042 were admitted. The number of complaints against valuation under Section 163 of the Municipal Act heard by the Revenue and Refund Audit Officer aggregated 933. The number of decisions on complaints against amendments under Section 167 of the Act scrutinized amounted to 255. The number of claims sanctioned for refund on account of vacancy under Sections 174 to 179 of the Act and on account of overcollection aggregated 1,956 representing Rs. 49,848-1-6.

TOWN DUTIES.

47. The total collection for the year amounted to Rs. 40,03,254-0-6 against Rs. 38,47,929-1-4 for the previous year, while the amount refunded was Rs. 22,86,360-4-0 against Rs. 21,16,035-11-0, the net revenue being thus Rs. 17,16,893-12-6 against Rs. 17,31,893-6-4 in the previous year, showing a decrease of Rs. 14,999-9-10. The number of refund claims was 71,127 against 60,359 in the previous year. This is the largest amount of refunds ever allowed in one year : and it is satisfactory to note that the net revenue decreased so slightly from the large figures of last year, notwithstanding the amount of refund allowed. We may fairly expect an annual increase in the amount of our net Town Duty, partly because the population is increasing and its purchasing power is markedly greater : and partly because with the expansion of Bombay trade, a larger amount every year, though exported, does not obtain refund, owing to the time limit being exceeded. The problem is to see that the Municipality gets its legal dues, without at the same time hampering trade. The work of the department in this respect is still to some extent experimental, but it seems to have been satisfactorily managed during the year.

V.—Public Works.

DRAINAGE.

48. The Engines and Pumps at the Love Grove Pumping Station worked fairly satisfactorily during the year, but breakages were somewhat frequent owing to the age of the machinery. The erection of the new electric generating station for driving the Screening and Dredging plant was completed during the year and the sewage from the main sewer was turned into the new Detritus and Screening Chambers. The experience gained by nine months' working of this machinery shows that the amount of silt is very much larger than was anticipated and that the dredgers may need some alteration to enable them to cope with it. The erection of the new pumping machinery and boilers was almost completed during the year and the first engine was run under steam on 1st April 1914. The fresh soundings necessary along the line of the new Low Level Sea Outfall at Love Grove having been taken early in the year, amended plans and quantities in accordance with them were prepared and the construction of the first 1,100 feet of the sewer to low water level at an estimated cost of Rs. 2,35,958, was commenced during the latter part of the year. This will enable both the new and old pumping stations to be utilised during the monsoon of the current year.

49. Enquiries have shown that it will not be possible to secure contractors in India to undertake the construction of the submerged portion of the Outfall Sewer. Sir John Wolfe Barry has therefore been asked to advise as to the possibility of securing contractors in England, the alternative being to undertake the work departmentally.

50. As regards the other important sewerage works referred to in the Annual Report for 1912-13, *viz.*, the diversion of the S. W. channel from Love Grove to Worli and the provision of pumps to serve all the S. W. channels at Worli has been fully discussed and there appears to be no possible alternative. The type of pumps to be adopted is still under consideration and a further reference has been made to Mr. Midgley Taylor. So far as the sewerage of the North of the Island is concerned, the Corporation by their Resolution No. 6826 of 5th February 1914 have approved of the construction of the main sewer from the Sion Causeway to the proposed Pumping Station midway between Dadar Road and Elphinstone Road at an estimated cost of Rs. 7,62,094. This work will be taken in hand after the rains of 1914-15. By the same Resolution the Corporation have approved of the construction of the following works to deal with the additional

calls on the drains that may be expected to result from the introduction of the additional Tansa Water-supply.

(1) Duplication of the main outfall sewer from Love Grove to Khetwady Back Road.

(2) Construction of a new sewer from Carnac Road along the new Improvement Trust Road and thence upto Grant Road.

The total cost of these works is estimated at Rs. 12,00,000.

The construction of these additional sewers will be started immediately after the rains of 1914-15.

51. The machinery of the Colaba Air Compressor Station and the Ejector Stations served from it worked satisfactorily during the year. The total quantity of sewage lifted during the year was 440½ million gallons.

52. The machinery at the Love Grove Air Compressor Station and the several Ejector Stations in the Parel, Chinchpokli, Agripada, Malabar Hill and Mazagon Districts also worked satisfactorily during the year and the total quantity of sewage lifted by the Ejectors was about 1,914⅛ million gallons.

53. Of the large drainage works in hand, very good progress was made with the scheme for the drainage of high lands from Byculla to Bhoiwada. The storm water drain in Sopari Baug Road was completed during the year and considerable progress has been made in the construction of the storm water drain in Reay Road from Connaught Road to Kalachowki Road, and also of the drain from the latter road to the South end of Sopari Baug Road through Parel Tank Road and the lands belonging to the Petit Orphanage. Both these drains are expected to be completed before the next rains. The portions of the drains which were completed in previous years worked very satisfactorily during the last rains.

54. The work of the sewerage of the Elphinstone Reclamation District was vigorously pushed on and is approaching completion. Many smaller drainage works were also carried out during the year, the details of which will be found in the Executive Engineer's report. During the year 993 improved concrete covers were provided over storm water entrances. The Corporation have since sanctioned a grant of Rs. 95,500 for the expeditious prosecution of this anti-malarial measure in A Ward and the work will now be carried out. 252 house drainage street connections and 99 storm water connections were made during the year. Action to get properties in the Malabar Hill District connected with the sewers was continued during the year; six notices were served and all of them were complied with. In all 54 common house gullies were re-modelled upto the end of 1913-14.

REGULATION OF STREETS AND BUILDINGS.

55. The number of applications for permission either to build or rebuild houses, etc., aggregated 3,525 against 3,618 in the previous year. 3,314 notices were issued against house-owners under various sections of the Municipal Act. This number is less than the previous year's total by 1,204. In 944 cases prosecutions were instituted in the Magistrates' Courts against house-owners for not complying with the notices served on them against 1,314 in the previous year. Out of the 944 cases, in 497 the parties complied with the Municipal requirements before the service of process and the cases against them were therefore withdrawn. In 131 cases the parties were warned and discharged; in 227 cases they were convicted and fined, and 89 cases were pending at the close of the year. 457 notices were issued for the removal of unsafe and dangerous or ruinous buildings; 386 of these were complied with either partly or wholly and in 7 cases the structures were removed by the Municipality and 64 cases were pending at the close of the year. 23 buildings or parts of buildings

fell during the year. In 15 cases no injury was done and in the remaining 8 cases 9 persons were killed and 14 were injured. Action was taken for the removal of 445 inflammable and insanitary huts; of these 350 were removed and 95 were pending at the close of the year. Five cases had to be submitted to the Standing Committee for the removal of unauthorised work.

ROADS.

56. The area of roads metalled (full metalling and full patching) during the year was 57,72,102 square feet at a cost of Rs. 3,10,719, the rate for full metalling working out to 10·33 pies per square foot. This rate is higher than that of last year, but is still within the standard rate of Rs. 5-12-0 per 100 square feet, notwithstanding the increased rates for road materials purchased during the year. Out of 167¼ miles of roads, 41½ miles were disturbed in connection with water pipes, drains, gas and electric supply mains, the operations of the Bombay Electric Supply and Tramways Company, Ltd., the Gas Company, the Telephone Company, and the Tata-Hydro-Electric Company being responsible for about 23⅓ miles of this. The tarring of roads was continued during the year and the area so treated was 20,491 square yards at a cost of Rs. 33,073. In order to reduce road watering a grant of Rs. 41,370 was obtained for the purchase of Akonia and 148 roads with an area of 10,11,100 square yards were treated with it. Nine important roads were widened during the year by adding set backs to them. In all land measuring 9,94,753 square yards, estimated to cost Rs. 3,16,224-15-2, was added to the streets. The actual sum paid for set backs, which included some enforced in previous years was Rs. 3,23,408-15-4. Considerable progress was made with the revision of the set back lines suggested by a Committee of the Corporation. Six roads were taken over from the Bombay Improvement Trust and declared public during the year and 15 private streets were declared public under Section 306 of the Municipal Act. The portion of Reay Road between DeLima Street and Wari Bunder Road, newly constructed by the Municipality, was opened for traffic and good progress was made with the construction of a new 60 feet road leading west from Matunga Station. Action under Section 305 of the Municipal Act was taken in respect of nine private streets. Considerable progress was made in the forming of new footpaths and several awkward and dangerous corners of roads were improved. 1,235 new trees were planted during the year. Considerable progress has been made with the laying out of the Bhatia Baug on lines approved by a Committee of the Corporation.

57. The Tram tracks along Hornby Road, near the Bhatia Baug, were remodelled, and a new siding 366 feet in length was laid in Cruickshank Road behind Tata's Statue.

OVERBRIDGES.

58. The Clerk Road Overbridge over the G. I. P. Railway was opened to traffic during the year. The Elphinstone Road Overbridge was completed during the year, but the Railway Authorities have had to be asked to rectify some minor defects in the work before it can be taken over. The work of the major portion of the four approach walls, the east abutment and the filling in of the approaches of the Currey Road Overbridge over the G. I. P. Railway has been completed. The preliminary work necessary for the construction of the Clerk Road Overbridge over the B. B. & C. I. Railway is well advanced, but the Railway Company has not yet begun actual construction. No progress was made with regard to the DeLisle Road Overbridge over the B. B. & C. I. Railway, as the proposals for widening the bridge to 80 feet are still under the consideration of the Corporation. The certified expenditure for overbridges at the close of the year amounted to Rs. 2,18,232-1-1. The question of the location of the Dadar Road Overbridge was settled during the year, and the G. I. P. Railway Authorities are preparing the detailed plans and estimates. The Municipal share of the cost of this work is estimated at about Rs. 4,00,000.

PUBLIC LIGHTING.

59. The total number of gas lamps at the end of the year was 5,792 being an increase of 284 over the previous year and the total number of kerosine oil lamps was 1,550 being a decrease of 228. The total cost of gas lighting amounted to Rs. 3,71,253-1-8 being an increase of Rs. 11,353-14-4 and the net cost of kerosine oil street lighting amounted to Rs. 29,582-10-5 being a decrease of Rs. 4,199-11-5.

MUNICIPAL WORKSHOPS.

60. The Municipal Workshops were fully employed during the year in the repair of the plant and machinery used by the different departments and in the manufacture of new articles. The work of the Mechanical Branch is growing more and more important with the increase in the pumping and other machinery. The Municipal Workshops made an estimated profit of Rs. 2,907-1-6 on the year's working. The bills preferred to the various departments amounted to Rs. 2,09,057-10-0.

61. Plans and estimates for the second section of the new Workshops at Foras Road having been completed, tenders were invited for the work and the tenders of Messrs. Virji Tejoo and Co. and Messrs. Richardson and Cruddas for the masonry and steel work respectively were accepted about the close of the year. Some progress was made with the foundations before the close of the year.

62. The four motor cars provided for the Engineering and Health Departments were in active use running 28,961 miles at a cost of 4·4 annas per mile.

WORKS IN CONNECTION WITH PLAGUE MEASURES.

63. The sanitary, water and lighting arrangements at Health Camps erected by private parties and by the Municipality were, as in former years, provided at the Municipal expense.

WATER WORKS.

64. *Tansa Lake.*—The rainfall was 93·26 inches against 88·12 inches in 1912 and was 4 per cent. above the average for the preceding 5 years. From the beginning to the end of the monsoon 70,924 million gallons of rain fell on the catchment area of 33,600 acres. Out of this quantity 34,739 million gallons or about 49 per cent. of the total rainfall was received in the lake.

65. The lake began to overflow on 28th June when the rainfall amounted to 30·35 inches and continued to overflow at intervals until 15th October. The total quantity of water that passed over the waste water weir was about 23,513 million gallons or about 68 per cent of the quantity received in the lake. The quantity of water delivered into the duct at the lake was about 7,278 million gallons of which 6,320 million gallons were received in the City, the balance 958 million gallons being lost by evaporation, overflow from syphon heads and leakage. The total leakage found at visible leaks between Tansa and Ghatkopar amounted to half a million gallons per day. The work of stopping the leakage along the aqueduct between syphons 6 and 8 was continued during the year. There were no bursts on the Tansa main during the year. The water in the lake continued to maintain its high standard of purity.

66. *Vehar Lake.*—The rainfall was 90·47 inches against 69·55 inches in 1912 and was 14 per cent. above the average of the previous five years. The total rainfall on the catchment area of 3,900 acres amounted to 7,986 million

gallons and 684 million gallons were received from the overflow from the Tulsi Lake and about 5,494 millions or 63 per cent. of this quantity was received into the lake. The lake did not overflow during the year. The highest level of water attained during the year was 253·77 feet above T. H. D. or 10·73 feet below the waste water weir and 23·27 feet above the lowest outlet. Owing to the low level of the water in the lake the curtailment of the supply from it which was effected on 7th November 1911 was continued throughout the year. The total quantity of water received in the city from the Vehar Lake through the 32″ and 24″ mains was 3,188 million gallons giving an average of 8·46 million gallons per day. There were no bursts on the 32″ main during the year. The purity of the water in the lake was well maintained throughout the year notwithstanding the low level of the water.

67. *Tulsi Lake.*—The rainfall was 94·97 inches against 77·25 inches in 1912 and 3 per cent. above the average for the preceding five years. The total rainfall on the catchment area of 1,700 acres amounted to 3,654 million gallons and it is estimated that 2,706 million gallons or 74 per cent. of this quantity was received into the lake. The lake commenced to overflow on 25th July 1913 and overflowed intermittently till 23rd September. The total quantity of water received in the City was 1,222 million gallons or an average of 3·35 million gallons per day.

68. The work of water proofing the reservoirs and filter beds at the Malabar Hill Reservoir was completed during the year. The two reservoirs, the vaults under filters Nos. 1 to 4 and also the filters themselves have been made water-tight. The outlet well at the reservoir is now undergoing considerable alteration in connection with the duplication of the Tansa main and to accommodate the additional inlet and outlet mains from the reservoir a new tunnel is being built under Gibbs Road. The Bhandarwada Reservoirs and filters the water proofing of which was completed in 1911 showed no signs of leakage.

69. The work of renewing, enlarging and making additions to the water mains was continued during the year, 11½ miles of new pipes having been laid.

70 There were 49 bursts during the year against 57 in the previous year, 41 during 1911-12 and 76 during 1910-11. Forty-four of these bursts were on the small 3, 4 and 6 inch mains. The number of new connections made was 625 while 260 connections were cut off for various reasons, the total number of connections standing at the close of the year was 24,460. The number of cases in which the sanction of the Standing Committee was obtained for disconnections aggregated 520, but the disconnections had to be enforced in 61 cases only, the parties complying with the Municipal requirements before action was taken in the remaining cases.

WATER WORKS WASTE PREVENTION BRANCH.

71. 1,034 underground and 25,599 aboveground defects were detected and remedied. The total length of mains of all sizes sounded during the year was 53 miles and 280 feet. The work of the Waste Prevention Branch has resulted in a considerable reduction in the amount of water lost.

TANSA DUPLICATION WORKS.

72. The progress of the work of raising the Tansa Dam which is being carried out by Messrs. Pallonji Edalji & Sons was somewhat retarded by the scarcity of labour and the difficulty of obtaining suitable lime. The contractors who undertook to complete the work by the end of May 1914 will not therefore

be able to finish it before the monsoon of 1914. The widening of the earthwork embankments along the Tansa syphons has been completed and good progress has been made with the duplication of the syphons. All the steel pipes required for syphon No. 5 and about 5 miles of piping required for syphon No. 6 have been manufactured and transported to the sites where they will be required. The supply of the cast iron pipes, &c., for the southern section is proceeding very satisfactorily and it is hoped that all the cast iron pipes will be delivered by January 1915 and the laying of the same completed by June 1915. Good progress has been made with the laying of the additional distributing mains in the City, details of which will be found in the Hydraulic Engineer's report. Revised estimates for the removal of villages from the catchment area of the Tansa lake are being prepared and negotiations for the acquisition of the land will soon be entered into. In connection with the Reservoir at Ghatkopar, trial pits have been made along the site of the dam and steps will soon be taken to acquire the necessary land.

73. The working of the Department has been very satisfactory.

GENERAL STORES DEPARTMENT.

74. The following figures show the value of stores purchased and issued during the year including transfers and the balance in hand at the commencement of the year :—

Particulars.	General Stores.	Surplus and Obsolete Stores.	Line Suspense Account.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Value of Stores in hand on 1st April 1913... ...	2,91,969 14 0	26,868 6 9	1,16,332 4 9
Value of Stores purchased or added, including transfers during 1913-1914	8,05,261 0 8	391 12 9	2,426 11 8
Total value Rs. ...	10,97,230 14 8	27,260 3 6	1,18,759 0 5
Less—			
Value of Stores issued including transfers ...	8,03,111 2 4	18,499 0 10	7,098 11 10
Balance Rs. ...	2,94,119 12 4	8,761 2 8	1,11 660 4 7
Less—			
Discrepancies adjusted as per clause 29 of the Stores and Stores Audit Manual against rate adjustment account	4 3 0	.....	.....
Balance in hand on the 31st March 1914 ...	2,94,115 9 4	8,761 2 8	1,11,660 4 7

75. During the year 110 contracts for the supply of general and special stores were entered into by the Stores Department.

76. The work of verifying the stores in charge of the Stores Department was commenced in December 1913 and was in progress at the end of the year. The results so far have been satisfactory. The work of verifying stores on lines in charge of the Water Works Department was undertaken in May 1913, but the progress made has been slow, and the matter is receiving attention.

77. The surplus and obsolete stores on hand at the end of the year showed a considerable reduction over the last year's balance. This was due to the disposal of a large quantity of special drainage stores of the aggregate book value of Rs. 15,401-2-2. There was also a decrease in the value of stores on lines in charge of the different inspectors of the Water Works Department.

78. The yards of the General Stores and the Bellasis Bridge Pipe Depot are still unfenced; but it is not worth while enclosing them as arrangements must shortly be made for acquiring a new central site in which all the stores can be accommodated. This will also allow of an adequate sample room being erected.

79. The Department has been satisfactorily administered during the year.

FIRE BRIGADE.

80. The Fire Brigade was maintained in a state of thorough efficiency throughout the year.

81. There were 281 calls to fires, of which 36 were false alarms. In several cases more than one call was received for the same fire. The total number of fires (224) was no less than 98·4 above the average of the previous ten years, a fact which indicates the heaviness of the year's work. The total estimated damage by fire during the year amounted to Rs. 64,75,696 against Rs. 15,20,093 during 1912-13, being the highest on record during the decade. The greatest amount of damage in a single case was Rs. 40,00,000, a godown containing cotton bales and a large quantity of cotton bales on open ground at Arthur Bunder, Colaba, being destroyed by fire and damaged by water.

82. The other more serious fires were those shown below :—

Amount.	Description of property destroyed.	Locality.
Rs. 5,00,000	Cloth Market	Sk. Memon Street.
„ 4,00,000	Steamship	Prince's Dock.
„ 4,00,000	Cotton Press and Cotton Bales.	Victoria Bunder, Colaba.
„ 3,00,000	Cotton Mill	Carroll Road, Lower Parel.
„ 2,77,500	Offices and Godowns ...	Tamarind Lane.
„ 1,25,000	Furniture shops and dwelling houses.	Mutton Street.
„ 50,000	Cotton Press	Victoria Bunder, Colaba.
„ 60,000	Electrical goods	Canada Building, Hornby Road, Fort.
„ 56,800	Shops and dwelling house ...	Bhuleshwar Road.

83. Of the total loss Rs. 60,53,572 was covered by insurance while Rs. 4,22,124 was uninsured.

84. The loss of life by fires during the year was nine, while five persons received injuries to which they subsequently succumbed. Three persons lost their lives by falling while attempting to jump from a building on fire to a neighbouring building.

85. Three firemen of the Brigade were killed by the collapse of a floor at the fire in Tamarind Lane.

86. A new site for the Fort Fire Brigade Station on Mint Road has been selected and negotiations for its acquisition are proceeding.

87. Of the 50 fire alarms sanctioned by the Corporation the work of erecting 43 was completed during the year. Their working has been satisfactory.

88. The emergency van attended on 6 occasions at fallen buildings; six persons lost their lives by the fall of buildings and fourteen received slight injuries.

89. The water supply at fires was satisfactory. In addition to the supply from the mains sea water was used by the Brigade on several occasions.

PUBLIC GARDENS.

90. The number of public gardens maintained during the year was the same as in the past year. The remodelling of the Bhatia Baug Garden was begun in May 1913 and is now nearing completion.

91. The number of visitors at the Victoria Gardens was 1,665,973 against 1,496,569 in the previous year. The work of up-keep was rendered difficult by the scarcity of both permanent and casual labour and it has been found necessary to make provision in the Budget for 1914-15 for an increase of Re. 1 in the wages of the lower posts of Malis. The expected increase in the water supply will render it possible to keep the gardens in a much better condition than at present.

92. Improvements in the drainage arrangements of the gardens were carried out during the year, which will reduce the flooding to which the north-east part of the garden is now liable.

93. The band performances at the Victoria Gardens, the Esplanade Band Stand and Chowpatty, continued to be well patronized by the public. Band performances at the Victoria Gardens were given every Saturday, an admission fee being charged on every alternate occasion. In all 18 performances with an admission fee were given during the year, the number of visitors on these 18 days being 26,862 against 26,659 in the previous year and the admission fee realized Rs. 2,736-2-6 against Rs. 2,829-8-0 last year. The slight decrease in the fee was due to the large number of children attending the performances. Thanks are due to the Bombay Electric Supply and Tramways Co. for continuing to carry the Bandsmen to the Victoria Gardens an Chowpatty on Band days in reserved cars free of charge.

94. The Elephant and Camel rides continued to be popular.

95. A fairly large addition was made to the Zoological Collection partly by purchase and partly by presentation; but the casualties were also numerous. The report of the Superintendent of Gardens contains a list of the animals presented and of the names of the donors to all of whom the thanks of the Corporation are due.

96. The Northbrook Garden and the Sir Cawasji Jehangir Garden at Mahim continued to be partly utilized as Health Camps.

VICTORIA AND ALBERT MUSEUM.

97. The Museum was open to the public during 313 days of the year. The total number of visitors was 832,641 against 822,577 during 1912-13, giving a daily average attendance of 2,660 against a daily average of 2,628 for the previous year. This exceeds the daily average even of the year 1911-12 which owing to a large influx of visitors to Bombay on account of the Royal Visit eclipsed all previous records and is an indication of the growing popularity of the institution.

98. In the Department of Natural History, the work of identifying, labelling and arranging the collection of shells was completed during the year. Six cases containing specimens of fish eating birds were renovated and relabelled and photographs of coral beds of different varieties in different stages of growth in the vicinity of the Islands of New Hebrides were procured and exhibited during the year. A case containing carefully prepared clay models of the principal varieties of the poisonous snakes of India was also set up. Fair progress has been made in the collection of books, photographs, prints and maps connected with Bombay to form an "Old Bombay" room. Many interesting specimens have been added to the Industrial and Ethnological sections.

99. Considerable progress has been made in the work of labelling and cataloguing the exhibits during the year.

VI.—Public Health.

100. The general health of the City was good and there was no epidemic of any disease except Plague.

101. The total mortality for the year exclusive of still-born births was 31,806 against 38,954 for the previous year. This is the lowest mortality recorded since 1896. The number of deaths recorded from plague during 1913 was 2,609. This figure also is the lowest since 1896, with the exception of the year 1912 when it was lower by 892. Tuberculosis was responsible for 2,152 deaths, the lowest recorded since 1878.

102. The number of births registered during the year was 19,644 or less than in any year since 1908. The Health Officer suggests that the decrease was to a considerable extent due to a temporary migration of the female population.

103. The vaccination of Hajis by the Health Department Vaccination Staff resulted in the vaccination of 11,198 pilgrims. The Anti-Malaria operations were continued and resulted in 99 wells and tanks being filled in and 604 wells and tanks being covered over during the year. The Gowalia Tank and the Dhobi Talao were filled in and the work of filling in the Mastan Tank, Cawasji Patel Tank and Nawab's Tank was taken in hand during the year. The work of covering and protecting the cisterns over public latrines and urinals was completed. In all 51,604 tabloids of quinine hydrochloride were distributed free during the year. A detailed report showing the work done by the Special Malaria Department is embodied in the Health Officer's report.

104. The twelve Municipal Dispensaries continued to be freely patronized by the public and the Municipal Nurses and Midwives attached to the registration districts were fully occupied in attending on confinements, verifying births and in advising mothers on the care and rearing of infants. During the year the Corporation sanctioned a grant of Rs. 1,000 for providing certain comforts, such as beds, blankets, milk, loaves, &c., to poor class women during confinement. Relief of this kind was given in 42 cases during the year.

105. The Health Officer's report furnishes full details of the sanitary and conservancy work of the Department.

LICENSES.

106. The total amount collected on account of License fees aggregated Rs. 1,14,282 against Rs. 1,09,896 collected during the preceding year, the net increase thus being Rs. 4,386. The number of licenses issued was 9,334 against 8,336 issued during the preceding year.

107. The revised bye-laws in respect of milch cattle stables received the approval of the Corporation and were confirmed by Government during the year. They are being introduced with effect from 1st April 1914. The bye-laws in respect of horse and bullock stables are under the consideration of Government. The control of the sale of milk has been rendered possible by the amendment of the Municipal Act by the insertion of Section 412 A. The issue of licenses under this section was begun on 1st April 1914.

108. The total number of prosecutions instituted during the year was 3,727. Fines amounting to Rs. 18,415-8-0 were inflicted in 925 cases. The accidental omission of the words " and in conformity with the terms and conditions of " from Section 394, referred to in the last Annual Report, was remedied by Act VI of 1913.

109. The Department was efficiently managed during the year.

MARKETS.

110. The total revenue from Markets and Slaughter Houses amounted to Rs. 5,85,493-10-6 against Rs. 5,81,035-5-2 in the previous year, showing an increase of Rs. 4,458-5-4, derived from different sources as given below :—

	Rs.	a.	p.
Stall rents	2,280	14	10
Squatters' fees from Fish Markets, scale fees, fair ground rent and feeding fees at Bandora	11,725	0	0
Squatters' fees collected departmentally...	1,414	9	0
Revenue from other sources	1,482	6	6
	16,902	14	0
Less—			
Decrease in slaughter fees, Butchers' license fees, etc. ...	12,444	9	0
	4,458	5	4

111. The increase in the stall rents, though small, was satisfactory, as it was due to the pressure put on squatters to take stalls; while the increase in amount of squatters' fees was due to the successful efforts to remove squatters into the markets, instead of permitting them to compete unfairly outside. This requires constant work on the part of the staff, and the results are satisfactory. The number of stalls vacant is still large in the Colaba, Fort and Erskine Road Markets. In the former two markets there is no real demand for stalls, as the public do not frequent these markets, while in the latter there is severe competition in the neighbourhood. The increase in the fees from the market rights farmed out was principally under fair ground and feeding fees, and was mainly due to the larger importation of horned cattle to Bandora on account of scarcity and famine in some of the up-country districts. The large decrease in slaughter fees, butchers' license fees, etc., was due to a decrease in the slaughter of buffaloes which fell from 7,939 to 6,798. The fee on the slaughter of buffaloes has purposely been put at a high figure, as it is not thought desirable to encourage it. Whether on account of the large supply of other horned cattle or from some change of taste, the number of buffaloes slaughtered decreased very largely during the year. The number of bullocks, cows and calves slaughtered was 60,429 against 54,153, an increase of 6,276, this being due to their being sent down in large numbers from up-country. The number of sheep and goats killed fell from 688,519 to 657,948. There appears to have been some scarcity of animals in the districts supplying the City, and a consequent rise in price. The amount realised from the sale of blood showed a decrease of Rs. 200.

112. The percentage of horned cattle rejected on account of unfitness at Bandora was about 3·1 per cent. against 3·5 per cent. in the previous year, while that of sheep was about 2·6, the same as the previous year. 41 buffaloes were rejected. The inspection work was on the whole satisfactory.

113. The fines inflicted by the Presidency Magistrates amounted to Rs. 1,648 against Rs. 1,374-14 0 in the previous year, and were mostly on account of meat improperly brought into Bombay. The quantity of such meat seized and destroyed was 3,007½ lbs. against 6,726 lbs. in the previous year and 28,696 in 1911-12. It is satisfactory to find that this contraband trade has almost ceased owing to increased supervision and the power given under the amended Section 412 of the Municipal Act, and also to the severer sentences which the Magistrates now impose. The total quantity of unwholesome food destroyed as unfit for human consumption was 2,12,850 lbs. against 2,54,757 lbs. in the previous year.

114. For the reasons given above, the beef supply was plentiful and cheap, while that of mutton was somewhat scarce and dear. The fruit and vegetable supply was up to the usual standard. The financial results of the working of the markets is shown in Statement F of the Superintendent's report. The return of 8·5 per cent. on the estimated capital expenditure is satisfactory, especially as the largest markets, the Crawford and Erskine Road, gave a return of 12·99 and 9·69 per cent. respectively. Many of the smaller markets give little return; for example, the Colaba and Fort Markets only yield ·35 and 1·89 per cent. respectively, and very little improvement can be expected from them. The construction of 5 shops on the western frontage of the Arthur Crawford Market and 66 additional stalls behind them has been sanctioned, and will be provided for in the 1915-1916 Budget. This extension will, it is hoped, be both markedly advantageous to the public and profitable to the Corporation.

115. The lay-out of a new meat market, and the re-construction of the Slaughter house, have both been the subject of consideration during the year, and I hope to make some progress towards their realisation in the near future.

116. The Market Department was successfully conducted during the year both by the Superintendent, Mr. Michael, and by Mr. Robottom who acted while Mr. Michael was on leave.

VII.—Education.

117. The number of Municipal schools and of pupils attending them rose from 160 schools with 16,746 pupils to 174 schools with 18,846 pupils.

118. Fourteen new schools were opened, six giving instruction in Marathi, five in Guzerathi and three in Urdu.

119. Three Guzerathi schools for the children of Bhangis were opened during the year. Education in these schools is given free, and the pupils are supplied with slates and exercise books.

120. In all there are now 10 free schools for the depressed classes with an attendance of 960 pupils. The three free schools opened for Factory children had an attendance of 215 pupils. It is hoped that with the co-operation of Mill Managers the experiment will show better results.

121. The expenditure rose from Rs. 3,78,088 to Rs. 4,37,815. The rise was principally due to the opening of new schools, the promotion of teachers, the provision of better quarters for schools and an increase in the grants to aided schools. The cost per pupil was Rs. 20·4 against Rs. 19·9 for the previous year.

122. The number of untrained teachers is still large; but with the facilities afforded by the Training Colleges at Poona and Ahmedabad, it should be possible gradually to remedy this. Some progress was made with the provision of new school buildings, though for various reasons it was not so rapid as might be desired. Twelve schools in all have special buildings of their own. Fourteen schools were moved to new quarters during the year, while ten more were provided with additional accommodation.

123. The number of schools to which aid was given was 134 with 14,772 pupils. The total grant paid to aided schools was Rs. 53,005 against Rs. 45,167 in the previous year.

MUNICIPAL SERVANTS' ACT.

124. The Halalkhors of the Health Department of all Wards, except F Ward, struck work on 30th June 1913 on the plea, among others, that the extra remuneration of Re. 1 paid to them for afternoon work was not enough. The Officers of the Health Department tried to persuade them to resume work, but they refused to do so. Information was therefore laid before the Magistrate and summonses for contravening Section 3 of the Bombay Municipal Servants' Act were issued against 12 persons who were representing the Halalkhors. They were warned and discharged, as they had in the meantime returned to work.

125. No circumstances arose in any other Department of the Municipality in which it was necessary to put into operation the provisions of the Municipal Servants' Act.

P. R. CADELL,

Municipal Commissioner
for the City of Bombay.

CHIEF ACCOUNTANT'S REPORT.

FOR 1913-14.

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FINANCIAL.

REPORT of Mr. W. E. Waite, Chief Accountant, for the financial year 1913-1914 as forwarded with his No. 4686 of 15th August 1914.

I have the honour to submit my report on the accounts of the Municipality for the financial year ending 31st March 1914.

2. The documents necessary for the preparation of my report were required to be submitted on the 15th May 1914, but as usual many of them were not sent till very much later. I would, however, notwithstanding this recurring difficulty which it seems almost hopeless to overcome, have been able to send in my report as usual were it not that while the supervising staff has been stationary for years, the work in my department has year by year been increasing to such an extent that it is becoming well nigh impossible for my staff and myself to meet the demands on our time and endurance.

This year matters have been further complicated by our being engaged in work connected with the raising of the 4 per cent. Debenture Loan of 41 Lakhs for the Tansa Reduplication Scheme at a time when we are usually devoting our energies to the Annual Report.

GENERAL RESULTS.

3. During the year the only important variation in the rates of taxation was in the General Tax which was reduced from 10⅝ per cent. to 10 per cent. Notwithstanding this reduction the income for the year aggregated Rs. 1,28,76,501 against Rs. 1,27,41,589 in the preceding year, showing an increase of Rs. 1,34,912 which will be found dealt with further on under "Income."

Rate of Taxation.

The expenditure for the year amounted to Rs. 1,20,48,926 and shows an advance on the previous year of Rs. 3,67,339 and is dealt with under "Revenue Expenditure."

Expenditure.

The net result of the year's transactions is a surplus of Rs. 8,27,575 which is less than the previous year by Rs. 2,32,428.

Net result.

Out of this surplus, Rs. 1,00,000 were utilized this year for the adjustment of the balance of Plague Charges advanced from Loan Funds. We have thus been able, within three years, while reducing the rates of taxation, to write off the whole of the Plague Expenditure of Rs. 9,10,052 financed from Loan Funds, thus avoiding raising a short term loan for the purpose.

Plague write-off.

4. The original Budget Estimates of Income stood at Rs. 1,22,18,710. This was increased to Rs. 1,26,14,210 in the Revised Estimates, but the figures actually realized were Rs. 1,28,76,501, showing an increase of Rs. 6,57,791 over the original estimates and of Rs. 2,62,291 over the Revised Estimates.

Budget Estimates—(1) Income.

5. The expenditure for the year, *viz.*, Rs. 1,20,48,926, shows a decrease of Rs. 2,43,140 on the original Budget Estimates of Rs. 1,22,92,066. As compared with the finally amended estimate of Rs. 1,33,19,020 (excluding the amount of Rs. 1,00,000 provided in the original budget estimate for the write off of Plague Expenditure outstanding) there remained an unexpended balance of Rs. 12,70,094, out of which renewals of grants to the extent of Rs. 10,08,232 are required to meet expenditure in 1914-1915 and future years, thus leaving a net saving of Rs. 2,61,862 on the final estimate for the year after having already provided for a saving of Rs. 2,38,150 in the Revised Estimates of the year.

Budget Estimates—(2) Expenditure.

6. Including recoverable advances made to the extent of Rs. 14,69,516 for administrative purposes, and Rs. 10,17,956 reserved for the renewal of lapsed grants for 1912-1913 and previous years, the year opened with a working cash balance of Rs. 46,29,577. It closed with a balance of Rs. 53,81,525 of which Rs. 10,08,232 represent the renewals of lapsed grants for 1913-1914 and previous years, Rs. 1,00,000 the minimum cash balance required by law and Rs. 9,73,900 reserved to meet the contribution due to the City Improvement Trust on the 1st May 1914.

Opening and Closing working balances.

7. The sum standing at the debit of "Reserve Stores Stock" at the 31st March 1914 (including Surplus and Obsolete Stores of the value of Rs. 8,761) aggregated Rs. 4,25,894 as compared with Rs. 4,50,267 (including Surplus and Obsolete Stores of the value of Rs. 26,868) at the beginning of the year. There was thus a further decrease of Rs. 24,373.

Reserve Stores Stock.

Additional and Lapsed Grants.

8. The sums made available for expenditure during the year in addition to the original Budget Grants aggregated the very large figure of Rs. 13,65,104 of which Rs. 3,47,148 represented additional grants and Rs. 10,17,956 renewed grants. The grants requiring renewal in 1914-1915 aggregate Rs. 10,08,232 as compared with Rs. 10,17,956 renewed in 1913-1914.

Surplus Cash Balance.

9. Including all recoverable advances, except lapsed grants to be renewed in 1914-1915 and Rs. 1,00,000 required to be reserved under the Act, the surplus cash balance at the close of the year aggregated Rs. 42,73,293 against Rs. 35,11,621 at the beginning of the year, bringing out an increase of Rs. 7,61,672. From this surplus a contribution amounting to Rs. 9,73,000 was paid to the City Improvement Trust on 1st May 1914. At the date of writing, the surplus had been further entrenched on to the extent of Rs. 2,22,952 for revenue purposes during 1914-1915 and hypothecations to the extent of Rs. 7,78,746 had been made to finance projects payable out of Loan Funds, in the absence of specific provision of funds in a loan.

Incidence of Taxation.

10. The incidence of taxation per head based on the Census for 1911 during each of the five years ending with 31st March 1914 works out as follows:—

Year.	Rs.	a.	p.
1909-1910	9	13	2
1910-1911	10	11	0
1911-1912	10	13	2
1912-1913	11	8	5
1913-1914	11	10	5

Income outstandings.

11. The outstandings of rates and taxes at the close of the year 1913-1914 stood at Rs. 50,034 against Rs. 53,688 in the previous year, thus showing a decrease of Rs. 3,654 as follows:—

Outstandings at	General Tax.	Water Tax.	Halalcore Tax.	Wheel Tax.	Meter Hire.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
31st March 1913 ...	16,697	28,878	6,007	1,936	170	53,688
31st March 1914 ...	21,561	19,599	7,389	1,423	62	50,034
	4,864 Increase	9,279 Decrease	1,382 Increase	513 Decrease	108 Decrease	3,654 Decrease

Comparison with Income 1912-1913.

(a) 12. As compared with 1912-1913 the receipts for the year show an increase of Rs. 1,34,912. There was a falling off in certain sources of Revenue amounting to Rs. 1,66,043, the principal heads affected being "General Tax" Rs. 66,557, consequent on the reduction of 5/8 per cent. in the rate, "Town Duties" Rs. 11,494; "Miscellaneous Receipts" Rs. 61,838 and "Interest at 3 per cent. on Corporation lands made over to the City Improvement Trust," Rs. 9,776. The increases, however, aggregated Rs. 3,00,954 and were principally in "Wheel Tax and Tolls" Rs. 37,978, "Halalkhore Tax" Rs. 34,295, "Water Tax" Rs. 1,14,486, "Market Receipts" Rs. 17,970, "Miscellaneous Fees" Rs. 24,991 and "Interest on investments of surplus loan and other balances" Rs. 35,057.

(b) Expenditure 1912-13.

13. The total Revenue Expenditure for the year *excluding* Rs. 1,00,000 utilised for the final adjustment of the balance of Plague Expenditure advanced from Loan Funds shows a net increase of Rs. 3,67,339 over the previous year. The variations were principally under the following heads:—

	Rs.
Public Gardens	+ 7,701
Fire Brigade	— 1,55,002
Public Works...	+ 3,24,835
New Works	+ 58,676
Public Health...	— 25,348
Education	+ 66,774
Contribution to the City Improvement Trust ...	+ 7,094
Debt	+ 90,833

Debt.

14. The Municipal Debt at 31st March 1913 stood at Rs. 5,90,41,916. During the year the second instalment of Rs. 25 Lakhs of the 55 Lakhs Loan for Miscellaneous Works was raised, as also Rs. 29 Lakhs of the first instalment of 35 Lakhs of the 70 Lakhs Loan for the Tansa Reduplication Scheme, and Rs. 6 Lakhs of the first instalment of Rs. 10 Lakhs of the 20 Lakhs Loan for Street Improvements. The Debt repaid during the year was Rs. 1,58,239 and the balance payable at 31st March 1914 stood at Rs. 6,48,83,677.

Sinking Fund.

15. Against the outstanding debt, the Sinking Fund Investments on the 31st March 1913 amounted to Rs. 1,26,39,883. To this, were added during the year Rs. 6,24,803 on account of Annual Sinking Fund Instalments and Rs. 5,17,756 on account of interest on the invested funds, bringing the total Sinking Fund Investments at 31st March 1914 to Rs. 1,37,82,442.

Borrowing Powers.

16. Allowing for the Sinking Fund of Rs. 1,37,82,442 against the outstanding debt of Rs. 6,48,83,677, the net debt liability is reduced to Rs. 5,11,01,235. Judged by the limit of double the rateable value (which stood at Rs. 5,30,41,743 on 1st April 1914) allowed under Section 109 (*b*) of the Municipal Act, the balance of our borrowing powers would amount to Rs. 4,11,99,809. A reference to para. 85 of this report will, however, show that taking the latest available data and allowing for the maximum rates of taxation leviable, our margin of borrowing powers is more correctly represented by a maximum limit of Rs. 2½ crores.

Loan Works.

17. The original Budget Estimate was placed at Rs. 1,00,16,542. It was reduced at the time of the Revised Estimate and placed at Rs. 49,84,265, and the total expenditure incurred during the year amounted to Rs. 43,67,475. Against a Budget Estimate of Rs. 47,70,562, and a Revised Estimate of Rs. 24,70,033, the actuals amounted during the previous year to Rs. 17,87,921.

Plague Expenditure.

18. The expenditure on Plague operations amounted to Rs. 1,24,682 during the year against the provision of Rs. 1,50,000 and an actual expenditure during 1912-13 of Rs. 1,47,763. The total expenditure of this Municipality for Plague purposes from the commencement of plague operations in 1896-1897 to the close of the year aggregated Rs. 78,46,895.

INCOME.

Comparison between Budget Estimates and Actuals.

19. A detailed comparison between the Budget Estimates and the Actuals will be found in Appendix No. 2.

Once again the income realized, far exceeded the original Budget Estimates, the net excess being Rs. 6,57,791 as under:—

Taxation proper	Rs.	2,52,536
Services rendered	„	1,66,562
Returns from Property & Miscellaneous	„	2,38,693
	Rs.	6,57,791

20. In "Taxation Proper" there was a small increase under "General Tax" of Rs. 32,595 representing a variation of only ·7 per cent. on the original estimate. In "Wheel Tax & Tolls" there was a very heavy increase of Rs. 66,500, due, it must be admitted, partly to an under-estimate. But the number of labour carts plying for hire increased by over 2,000, and the owners again paid for their licenses for 1914 much earlier than usual, and on these two counts there was an unexpected increase of over Rs. 30,000. The increase of Rs. 1,20,637 under "Town Duties" is due to heavy consignments of sugar, which swelled the receipts beyond the normal level and to heavier imports of timber. Judging from the very heavy refunds immediately in the beginning of the year 1914-15 and the fact that we are at this date behind last year's figures by Rs. 2,00,000, I am inclined to think that the increase is not permanent but is fortuitous and such as no estimating could safely allow for.

Under "Licenses" there was an increase of Rs. 17,216, due principally to closer inspection consequent on the appointment of extra staff and to an increase in the rates of certain fees leviable. The increase of Rs. 16,283 under "Tobacco Duty" is an item which I have no means of explaining, as the working of the Department is not under the Municipality.

21. The Water Revenue was originally put at Rs. 21,50,000 but increased in the Revised Budget to Rs. 22,80,000. The actuals amounted to Rs. 22,85,434, showing an increase of Rs. 1,35,434, notwithstanding that the taxation was maintained at practically the same level as in the previous year, when the total revenue was only Rs. 21,70,948. The increase includes a special receipt of Rs. 37,000 for timber sold round the Tansa Lake and the balance of nearly Rs. 1,00,000 is due principally to enhanced receipts in almost equal proportions from the tax on rateable value and levies on consumption by meter measurement.

The increase of Rs. 31,128 in receipts from "Halalkhore Tax" is due to the construction of new buildings in the City and the revision of assessments.

22. The increase under "Returns from Property and Miscellaneous" reached the very considerable figure of Rs. 2,38,692. The receipts from "Markets" show an advance of Rs. 27,240 from rents, squatters and scale fees and receipts from fair ground and feeding fees, notwithstanding the fact that the estimates framed allowed for an increase of Rs. 36,000 on the actuals for 1911-12; "Miscellaneous Fines and Penalties" were increased beyond the usual figure owing to larger fines inflicted by the Magistrates on the public and by the Executive Health Officer on his staff, resulting in an increase of nearly Rs. 15,000. Three other heads call for comment—

(1) Miscellaneous Receipts.

(2) Interest on investment of surplus loan and other balances.

(3) Interest on Corporation lands made over to the City Improvement Trust.

The difference of nearly Rs. 47,000 in Miscellaneous Receipts is due to a very limited extent to a small under-estimate but largely to greater income from rents for acquired buildings which, it was estimated, would be demolished, but which were not, and to higher receipts for grazing, fishing, &c., rights.

The heavy increase of Rs. 1,07,000 in "Interest" is due to increased revenue receipts and diminished expenditure principally on loan works in consequence of sanctions being delayed and expenditure over-estimated.

In regard to the interest paid by the City Improvement Trust it was anticipated that this would cease a year earlier than was actually the case.

23. It might be contended that a little bolder estimating might have anticipated some of the large net difference of Rs. 6,57,791 between the actuals and the original Budget estimates. Even allowing that this is so, extra receipts in the following directions could not in my opinion have been well anticipated to the extent noted:—

1.	Wheel Tax and Tolls	Rs. 30,000
2.	Town Duties	„ 1,20,000
3.	Water Tax and Miscellaneous water works revenue	„ 40,000
4.	Market Receipts	„ 27,000
5.	Miscellaneous Fines	„ 10,000
6.	Miscellaneous Receipts...	„ 30,000
7.	Interest on investments of surplus and loan balances	„ 1,00,000
8.	Interest at 3% on Corporation lands made over to the City Improvement Trust	„ 27,000
		Rs. 3,84,000

Deducting this sum from the net increase of Rs. 6,57,791 which indicates a variation of nearly 5½%, it will be found that the under-estimate is reduced to Rs. 2,73,791 on a total estimate of Rs. 1,22,18,710 or a deviation of 2·2 per cent.

II.—COMPARISON BETWEEN REVISED ESTIMATES AND ACTUALS.

24. From Appendix No. 2 it will be seen that in the Revised Estimates the total income was advanced from the original estimates of Rs. 1,22,18,710 to Rs. 1,26,14,210, but

the actuals exceeded even this sanguine estimate by Rs. 2,62,291. The principal increases on the revised estimates are detailed below :—

		Rs.
(1)	General Tax	20,595
(2)	Wheel Tax and Tolls	56,500
(3)	Town Duties	1,02,637
(4)	Tobacco Duty...	11,283
(5)	Market Receipts	14,240
(6)	Interest on investments of surplus loan and other balances	24,891

The difficulty of estimating will be better appreciated, I feel sure, when I mention that when I prepared the Revised Estimates the income for the year in Wheel Tax and Tolls was about equal to that obtained in 1912-1913 and that in Town Duties and Market Receipts we were behind, in the former by nearly Rs. 1,00,000 and in the latter by Rs. 12,000. Yet in the short space of 3 months Wheel Tax and Tolls exceeded the figures for 1912-13 by Rs. 38,000, Market Receipts covered the deficit and advanced Rs. 18,000 over the figures for 1912-13 and Town Duties fell short of the preceding year by only Rs. 11,500.

III.—COMPARISON BETWEEN THE ACTUALS FOR 1912-1913 & 1913-1914.

25. As already stated excepting the General Tax all the Taxes were levied at the same rate as in the preceding year but the income for the year (*vide* Appendix No. 2) exceeded that of the previous year by Rs 1,34,912, the increases under the different heads amounting to Rs. 3,00,954 and the decreases to Rs. 1,66,042. The increases are under "Fire Tax" (Rs. 11,254), "Wheel Tax and Tolls" (Rs. 37,978), "Tobacco Duty" (Rs. 7,757), "Halalkhore Tax" (Rs. 34,295), "Water Tax and other miscellaneous Water Works Revenue" (Rs. 1,14,486), "Market Receipts" (Rs. 17,970), "Miscellaneous Fees" (Rs. 24,991) and "Interest on investments of surplus and loan balances" (Rs. 35,057).

The expansion in the Fire Tax, Halalkhore Tax, and to a certain extent in the Water Tax follows the expansion and prosperity of the City, but in addition to this in the case of the Water Revenue there was larger consumption of water in the suburbs and by the Railways giving us Rs. 53,000 extra in 1913-1914 and there was a special receipt of Rs. 37,000 from the sale of timber round the Tansa Lake.

The reasons for increases under "Wheel Tax and Tolls," "Tobacco Duty," "Market Receipts" and "Interest on Investments, &c.," have already been explained in paras. 20 and 22. The increase under "Miscellaneous Fees" is due to larger receipts from the sale of the right of skinning dead animals and from scaffoldings fees, &c.

The decreases are under "General Tax" (Rs. 77,810), "Town Duties" (Rs. 11, 494), "Miscellaneous Receipts" (Rs. 61,838) and "Interest at 3 per cent. on Corporation lands made over to the City Improvement Trust" (Rs. 9,764).

The General Tax was reduced from 10½ per cent. to 9½ per cent. during the year under review. The decrease under so unstable an item as "Town Duties," I will not attempt to explain. The falling-off under "Miscellaneous Receipts" is attributable to special receipts realised last year from the sale of land to the Port Trust in connection with the extension of their Harbour Branch Railway at Mazagaon, and the decrease under "Interest" payable by the City Improvement Trust followed on the resumption by us of certain lands originally made over to that body.

26. The position as regards our principal sources of income, *viz.*, General Tax, Water Tax and Halalkhore Tax, continues satisfactory as will be seen on a reference to the attached statement. After allowing for the principal factors of variation, the net increase works out to Rs. 3,54,000. In addition, I consider the following might approximately be looked upon as permanent additions to our income :—

Wheel Tax	Rs.	28,000
Licenses	„	4,000
Receipts from Tobacco duty	„	7,000
Market receipts	„	15,000
Miscellaneous fees	„	20,000
Total ...	Rs.	74,000

We have lost Rs. 28,000 per annum in connection with the 3 per cent. return on Corporation lands made over to the City Improvement Trust, the levy of which has been abolished by recent legislation.

27. It might, therefore, I think be safely assumed that the Revenue expanded permanently during the year by Rs. 4,00,000 (Rs. 3,54,000 plus Rs. 74,000 minus 28,000).

1912-1913.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
1. General Tax including Fire Tax at 10½ per cent.—			
Total collections booked	49,51,862 1 1		
Less—			
Arrear recoveries	114 5 8		
Add—	49,51,747 11 5		
Outstandings for the year at the close of the year	13,477 13 2	49,65,225 8 7	
2. Water Tax and Miscellaneous Water Works Revenue at 3½ per cent. on rateable value—			
Total collections booked	21,70,919 1 1		
Less—			
Recoveries for previous years	11,979 7 2		
Add—	21,58,969 9 11		
Outstandings for the year at the close of the year	26,873 5 3	21,85,842 15 2	
3. Halalkhore Tax at 3 per cent.—			
Total collections booked	13,50,832 8 3		
Less—			
Recoveries for previous years	6,231 7 7		
Add—	13,44,601 0 8		
Outstandings for the year at the close of the year	4,648 13 10	13,49,249 13 6	85,00,318 5 3

1913-1914.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
1. General Tax including Fire Tax at 10 per cent.—			
Total collections booked	48,85,305 4 3		
Add—			
Excess of refund over recoveries for previous years	6,034 6 8		
Add—	48,91,339 10 11		
Outstandings for the year at the close of the year	13,702 6 3	49,10,042 1 2	
2. Water Tax and Miscellaneous Water Works Revenue at 3½ per cent. on rateable value—			
Total collections booked	22,85,434 0 0		
Less—			
Recoveries for previous years	20,603 11 8		
Add—	22,64,830 4 4		
Outstandings for the year at the close of the year	18,726 9 6	22,83,556 13 10	
3. Halalkhore Tax at 3 per cent.—			
Total collections booked	13,35,127 15 6		
Add—			
Excess of refund over recoveries for previous years...	3,001 13 7		
Add—	13,38,129 13 1		
Outstandings for the year at the close of the year	6,150 5 2	13,94,280 2 3	85,87,879 1 3

Net Income from Property Taxes for 1913-1914		Rs. 85,87,879 1 3
Add—		
Extra realizations in General Tax had the General Tax been levied at 10½ instead of 10 per cent. in 1913-1914 ...		Rs. 3,05,331 9 3
		Rs. 88,93,210 10 6
Deduct—		
(1) Net Income from Property Taxes for 1912-13	Rs. 85,00,318 5 3	
(2) Reduction in outstanding balances	„ 1,420 10 4	
(3) Special non-recurring water revenue	„ 37,000 0 0	„ 85,38,758 15 7
Net increase in 1913-14 over 1912-13		Rs. 3,54,471 10 11

OCTROI DUTIES.

28. As usual the various articles on which duty was levied at the time of import under the provisions of Section 192 (1) of the Municipal Act, the amount levied and the refunds allowed thereon under Section 192 (2) on their export, are shown in Appendix No. 3.

The gross collections for the year were estimated at Rs. 37,00,000, the refunds at Rs. 20,70,000 and the net revenue at Rs. 16,30,000. The actual gross realizations were Rs. 40,03,254 and the refunds paid aggregated Rs. 23,18,776.

The net revenue collected and paid into the Municipal Treasury in the year amounted to Rs. 17,30,637 against Rs. 17,42,131 in the preceding year and was in excess of the estimate by Rs. 1,00,637. The net realizations, after deducting the cost of collection, amounted to Rs. 15,44 941 against Rs. 15,60,863 in the previous year.

29. I attach, as usual, Appendix No. 3 A showing the net revenue derived from each dutiable article during the 10 years ending with 1913-1914. Appendix No. 3 B showing the actual collections, the refunds admitted, and the net revenue during the five years ending 1913-1914, and also Appendix No. 3 C showing the gross collections for the year from each dutiable article month by month from each source with the total refunds admitted as compared with the figures for the preceding year.

30. It will be perceived that there was a fairly heavy net decrease in sugar, but this was counterbalanced by increases in Ghee and Timber.

REVENUE EXPENDITURE.

I.—Grants for expenditure from Current Revenue.

31. From Appendix No. 4 it will be seen that the grants originally sanctioned by the Corporation under Section 129 of the Municipal Act aggregated Rs. 1,21,92,066 (excluding the provision of Rs. 1,00,000 for the write off of plague expenditure). To this were subsequently added, (1) Rs. 5,32,378 on account of lapsed grants for 1911-1912 and previous years including transfers sanctioned in 1912-1913 but not utilized in that year and budget grants for 1912-1913 not wholly or partially utilised in that year and sanctioned by the Corporation in 1913-1914, (2) Rs. 4,85,578 on account of lapsed grants for 1912-1913, (3) Rs. 3,47,148 on account of additional grants sanctioned for purposes for which no specific grants existed. The total sanctioned grants for the year (excluding Rs. 2,38,150 taken credit for as savings in the revised estimates) thus aggregated Rs. 1,33,19,020.

32. The principal items above Rs. 10,000 included in the additional grants for Rs. 3,47,148 sanctioned for the year are as under:—

	Rs.
(1) Contribution to the Bombay Sanitary Association for the construction of a Sanitary Institution in Bombay	15,000
(2) Cost of laying out the Bhatia Bagh site and the roads and open spaces and re-arrangement of the Tramway lines in its vicinity	71,303
(3) Cost of improving the gradients at Worli road...	14,739
(4) Do. do. in Forjett street...	15,794
(5) Cost of widening Mori road and of adding several important set-backs to Mahim Bazaar road...	25,000
(6) Purchase of a motor vacuum street cleaner machine	17,000
(7) Cost of constructing a new hospital for Cattle at the Tardeo Flats	16,848
(8) Purchase of 900 tons of coal for working the old pumping station at Love Grove as well as the temporary boilers put up in connection with the generating plant installed to run the new screening chambers for 3 months	19,500
(9) Excess over the grant for pension, gratuities, &c., during 1913-1914...	14,500
(10) Purchase of additional quantity of coal required for Love Grove Pumping and Air Compressor stations	25,750
(11) Excess over the grant for repairs and maintenance of roads and footpaths ...	20,000
(12) The write-off of a portion of the difference between the book value and the sale proceeds of surplus and obsolete stores belonging to the Drainage department	10,500
	Rs. 2,65,824

33. The transfers made from one budget head to another without in any way affecting the total budget provision for the year amounted to Rs. 1,64, 558.

II.—*Comparison between the Grants as finally sanctioned and Actuals.*

34. As stated in para. 31 the grants made finally available for expenditure during the year aggregated Rs. 1,33,19,020 (Appendix No. 5). The total expenditure actually booked amounted to only Rs. 1,20,48,926 leaving a very heavy unexpended balance of Rs. 12,70,094. Of this, Rs. 10,08,232 are stated to be required to be renewed for expenditure in 1914-1915, leaving a saving of Rs. 2,61,862 or 2·13 per cent. on the total sanctioned grants minus renewals, against 3·32 in the preceding year.

The following figures show the percentage of savings to sanctioned grants for the last 5 years *making no allowance for renewals*:—

Year.	Final sanctioned grants after deducting savings taken credit for in the Revised Estimates.	Unappropriated net savings.	Percentage.
	Rs.	Rs.	
1909-1910	1,21,36,875	1,71,872	1·42
1910-1911	1,21,74,691	2,31,642	1·90
1911-1912	1,27,73,556	3,92,699	3·07
1912-1913	1,31,00,589	4,01,046	3·06
1913-1914	1,33,19,020	2,61,862	1·96

35. As compared with the most unsatisfactory position at which we had arrived in 1911-1912 there has been a little progress as the following comparative statement brings out:—

	1911-12.	1912-13.	1913-14.
	Rs.	Rs.	Rs.
Savings as estimated in the revised estimates ...	2,56,498	1,19,000	2,38,150
Further savings accrued in final accounts	3,92,699	4,01,046	2,61,862
Total Rs. ...	6,49,197	5,20,046	5,00,012

36. Taking both the savings estimated while preparing the Revised Estimates and those ascertained on the final accounts the following are the principal departments and service heads involved, with the percentage of savings on total grants sanctioned:—

Percentage of savings on total sanctioned grants.	Departments and Service heads.	Total Savings.
		Rs.
6·3	General Superintendence	22,191
3·2	Assessment and Collection	14,971
5·9	Fire Brigade	10,442
4·9	Public Works	1,52,596
5·3	Public Health Department	1,39,496
9·1	New Works	54,813
2·7	Hospitals	11,885
2·1	Municipal Debt	79,388
	Rs.	4,85,782

37. Taking now the percentage of lapsed grants to total grants sanctioned under these heads we have the following results:—

Percentage of renewals to total sanctioned grants.	Departments and Service heads.	Total Renewals.
		Rs.
5·43	General Superintendence	19,165
·55	Assessment and Collection...	2,531
2·54	Fire Brigade	4,491
10·39	Public Works	3,20,826
3·19	Public Health Department...	83,763
54·85	New Works...	3,28,244
4·97	Debt	1,80,162

I have in past reports sought to explain these variations while asking that the Executive Officers concerned should be made to realize their personal responsibility in making demands, on a careful consideration of which, prior to submission, the efficient financial administration of the City depends. There has not, however, been any improvement visible. Savings there must be, renewals also are unavoidable, but when, for instance, in the Public Works Department, the savings and renewals exceed 15 per cent. of the sanctioned grants and when demands for financing new works result in practically 64 per cent. of the total grant made during a year being either saved or carried forward to the next year, it is clear that officers must frame their estimates of expenditure with greater prevision as to the amount of work that can be carried out during the year. It is necessary not merely to work out details with all possible accuracy before it is proposed to begin the works, but also to allow for difficulties of labour and contracts and for delay in obtaining the land on which it is proposed to work.

38. I have in former years invited attention to the large unexpended balances under New Works. I now attach as Appendix 5 A, for the first time, a statement showing all new works for which grants existed during the year, the expenditure during the year and the balances required to be renewed. It will be seen that while the sanctioned grants at the beginning of the year had reached Rs. 6,16,546, the Executive were only able to spend Rs. 2,58,045 or about 42 per cent. These figures show that the Public Works Departments must not allow their justifiable desire to get on with the many works required for the improvement of the City, to lead them to ask for larger sums than they are able, often from causes beyond their control, to spend.

39. As there was in the Health Department a total lapse in savings and renewals of Rs. 2,23,259, the percentage of renewed grants to grants allotted taking all departments and services works out to 7·57 per cent. against 7 in 1912-1913, 5·31 in 1911-1912 and 5·43 in 1910-11.

III.—*Comparison between the actual expenditure during* 1912-1913 *and* 1913-14.

40. The Revenue Expenditure of the year under report as compared with the preceding year, shows increases aggregating Rs. 7,70,090 under certain heads and decreases aggregating Rs. 4,02,751 under others, thus leaving a net increase of Rs. 3,67,339. The principal variations are explained below:—

A. *General Superintendence.*—Increase of Rs. 11,456. Of this increase, Rs. 3,976 was for printing and Rs. 5,845 for increase in the salary of the Municipal Commissioner. The decrease of Rs. 14,321 under General Office Establishment is due principally to Election expenses and purchase of motor cars in 1912-1913.

B. *Assessment and Collection Department.*—The increase of Rs. 10,024 is principally due to increased commission charges consequent on heavier imports of timber and ghee. There was a decrease of Rs. 8,836 due principally to reduction in the experimental staff in the Revenue and Refund Audit Office, and to the Revenue and Refund Audit Officer and his Assistant having drawn the minimum salaries of their appointments.

C. *Fire Brigade.*—The decrease of Rs. 1,55,002 is due to heavy expenditure on the purchase of Steam and Petrol motor fire engines and other fire appliances during the year 1912-1913.

D. *Public Gardens.*—Of the increase of Rs. 9,269, Rs. 5,521 is due to more expenditure on Repairs and Rs. 2,585 on New Works.

E. *Public Works Engineer's Department*:—There was an increase of Rs. 3,47,053 and the principal variations are explained below:—

The increase of Rs. 10,028 under "General Supervision and Miscellaneous Duties" is due to the Executive Engineer having been allowed to draw the second increment of his salary from 12th May 1913, to the appointment of an Assistant Engineer for Buildings and Architecture and to the employment of staff for revising the list of Municipal properties.

The increase of Rs. 33,209 under "C—Maintenance of Love Grove Pumping Station and of Rs. 13,674 under "Maintenance of Love Grove Air Compressor Station" is due to increased consumption of coal owing to the old pumping station and the temporary boilers having had to be worked for 3 months more than anticipated and to increased rainfall and leakage from the air mains. The decrease of Rs. 15,740 under "Sanitary Disposal of Town Sweepings" is due partly to a diminution in haulage charges consequent on the kutchra being disposed of in the City and partly to scarcity of labour in consequence of which the full strength of labour could not be employed. The increase of Rs. 12,822 under "Drainage" is due to the employment of extra staff, revision of pay, making new drain carts, increase in the rate for hire of carts, purchase of stores in consequence of the subsidence at Queen's Road and Thakordwar Road and to increased repairs and alterations to Miscellaneous Drains and Gutters. The increase of Rs. 23,494 under "Water Works" is due to increased labour charges, to increment allowed to the Hydraulic Engineer and certain members of his staff, to larger expenditure on (*a*) meters let on hire, (*b*) on repairs and paintings to water works buildings and bridges outside Bombay, (*c*) on repairs to meters, (*d*) to rental charges on account of additional telephone connections and finally to replacing small mains in the various parts of the City to improve the water supply. There was a decrease of Rs. 24,232 due (1) to no provision for the adjustment of the cost for minor works financed from Loan Funds having been made from revenue this year as in the preceding year, and (2) to no expenditure having been incurred this year on repairs to Bhandarwada Reservoir, as the sand required for the filter beds was not available.

There was a net increase of Rs. 2,47,022 in the Streets and Buildings Branch. The variations are as under:—

	Increase.	Decrease.	
	Rs.	Rs.	
(*a*) Inspection and Supervision ...	10,404	...	Due to the employment of seven additional road clerks and an establishment for the revision of set-back lines in the City, to increments allowed to the staff and to vacancies in the inspectorial staff having been filled up.
(*b*) Public lighting	27,574	...	Putting up new lamps in the Northern parts of the City and replacing the ordinary lamps by high power lamps at conspicuous places.
(*c*) Road watering	41,954	...	Due to the introduction of the system of treating roads with Akonia for abating the dust nuisance.
(1) Oiling and tarring roads ...	...	3,702	Due to less expenditure on the operations.
(*d*) Roads and Footpaths	1,53,265	...	Due (1) to higher rates having had to be paid for road materials and for hire of carts, (2) to a larger area having been brought under the operations, and (3) to the purchase of costly machines for the improvement of roads.
(*e*) Street Improvements	19,935	...	More expenditure on the work of adding set-back lands to the roads.
(*f*) Miscellaneous	...	2,408	Due to the cost of converting the steam tractor purchased for the market meat van service into a steam road roller having had to be paid last year.

F. *New Works.*—There was an increase of Rs. 58,676 owing to more works having been executed.

G. *Public Health Department.*—There were increases aggregating Rs. 20,846 and decreases amounting to Rs. 46,194 under this head, the net decrease being Rs. 25,348. Explanations of the principal variations are subjoined:—

Conservancy Branch.—There was a decrease of Rs. 8,112 made up of many items as under:—

	Increase. Rs.	Decrease. Rs.	
(1) Superintendence & Inspection...	3,446	.....	Due to the appointment of a Conservancy Superintendent.
(3) Labour—			
(*a*) Scavengering		40,810	Due to reduction in the number of cart drivers and absentees among the staff and to the rate of fodder being lower than the preceding year.
(*b*) Working of steam tip waggons	5,790	.....	Due to the maintenance of additional kutchra motors purchased during the year.
(4) Disposal of Town sweepings—			
(*a*) Loading siding at Mahalaxmi	6,849	.....	Due to the cost of maintaining 10 new wagons and to the purchase of road metal, &c., for making roads for the carts on the reclaimed ground at the Clerk Road reservoir.
(7) New stock	25,310	.....	Due to the purchase of 4 additional kutchra motors.
(13) Halalkhore branch—			
(*b*) Labour		11,250	Due to reduction in the number of halalkhores.
(*c*) Feed of bullocks		3,477	The rate of fodder being much lower than that of the preceding year.
(*e*) Repairs and Maintenance ...	3,189	.....	The expenditure on the conversion of old pattern latrines and urinals into new ones was more owing to the certificates of work done during the previous year having had to be paid this year.

Markets and Slaughter Houses.—There is an increase of Rs. 4,433 owing principally to replacing the existing ordinary lamps at the Erskine Road Market by high power lamps and to oil painting the Arthur Crawford Markets.

Infectious Diseases.—The decrease of Rs. 11,562 was due to less expenditure on special measures owing to a decrease in Cholera and Small-pox during the year.

Vaccination.—The increase of Rs. 5,131 is principally due (1) to the purchase and installation of a refrigerator to preserve the efficacy of vaccine, (2) to the cost of allowances paid to acting incumbents, (3) to increments allowed to certain members of the staff, and (4) to increase in the wages of coolies.

Malaria.—There is an increase of Rs. 6,473 on account of more extensive operations.

Plague.—There was a decrease of Rs. 23,080 due to less expenditure on Disinfection, Maintenance of camps, Rat destruction, and under the head "Unforeseen charges."

H. *Education.*—There was an increase of Rs. 66,774 owing to increased contribution to Primary Education.

I. *Miscellaneous.*—There were increases amounting to Rs. 1,46,791, due to the grant of pensions to retired employés, to the payment of Local allowance to Municipal employés at an increased rate, to contribution towards the fund for the children's fête held in Bombay in commemoration of H. E. the Viceroy's recovery, to contribution towards the building to be erected at Apollo Bunder to commemorate the visit of H. M. the King Emperor of India, to the cost of a casket presented to H. E. the Viceroy on his visit to Bombay and to a write-off of the difference between the book value and the sale proceeds of certain surplus and obsolete stores of the Drainage Department. There were also decreases aggregating Rs. 1,45,895 principally due to the heavy expenditure for grain compensation allowed to menials in the preceding year and to the charges incurred in 1912-1913 in connection with the illumination of Municipal Buildings &c., during the Royal Visit.

J. *Contribution to the City Improvement Trust.*—An increased contribution of Rs. 7,094 had to be made to the City Improvement Trust during the year owing to an increase in the General Tax realizations.

K. *Municipal Debt.*—There was an increase amounting to Rs. 91,092 due to an expansion in our debt charges.

L. *Write-off of the Plague expenditure.*—The decrease of Rs. 2,10,052 is due to the write-off to Revenue of outstandings on account of Plague expenditure being smaller.

41. On a comparison of the expenditure for the 2 years, 1912-1913 and 1913-1914, I estimate that the net result of the year's transactions has been to add to our recurring liabilities to the extent of Rs. 5,05,000 thus :—

		Increase. Rs.	Decrease. Rs.
1.	General Superintendence	5,000	
2.	Gardens...	7,000	
3.	Public Works Engineer's Department—		
	(1) General Supervision and Miscellaneous Duties	10,000	
	(2) Maintenance of Love Grove Pumping Station... ...	30,000	
	(3) Drainage	10,000	
	(4) Water Works	45,000	
	(5) Streets and Buildings—		
	(a) Inspection and Supervision...	10,000	
	(b) Public Lighting... ...	27,000	
	(c) Road Watering ... ... Treating roads with Akonia	3,000 40,000	
	(d) Roads and Footpaths ...	99,500	
	(e) Street Improvements ...	19,500	
4.	New Works	50,000	
5.	Public Health Department	.....	20,000
6.	Education (contribution to Primary education)	67,000	
7.	Hospitals	.....	5,000
8.	Miscellaneous-Pensions	9,000	
9.	Contribution to the C. I. Trust... ...	7,000	
10.	Municipal Debt	91,000	
		5,30,000	25,000
		Net increase Rs.	5,05,000

The salient features in this large increase are in the following directions :—

Public Works Department	Rs.	3,44,000
Education	„	67,000
Debt	„	91,000
	Rs.	5,02,000

I have in para. 27 estimated the permanent and non-fortuitous increase in income at Rs. 4,00,000. Thus during the year the recurring expenditure advanced more rapidly than the permanent increase in our income.

SURPLUS CASH BALANCE.

42. The surplus cash balance excluding the minimum balance of Rs. 1,00,000 required by law but including Rs. 9,73,000 reserved during the year for payment to the City Improvement Trust on account of contribution from Revenues ear-marked for the purpose stood at Rs. 42,73,292-11-10 against Rs. 35,11,620-3-11 at the close of 1912-13, showing an increase of Rs. 7,61,672-7-11 made up thus :—

Surplus for the year	Rs.	8,27,574	9	1
Decrease in balance of reserve stock stores	„	24,373	8	7
Decrease in lapsed grants...	„	9,724	6	3
	Rs.	8,61,672	7	11
Less—Portion of Plague expenditure written off by a contribution from Revenue	Rs.	1,00,000	0	0
Net increase	Rs.	7,61,672	7	11

43. The Surplus Cash Balance at the close of the year, including Rs. 1,00,000 required by law and Rs. 9,73,000 reserved for payment to the City Improvement Trust amounted to Rs. 43,73,292-11-10 and was Rs. 15,81,595-11-10 in advance of the original estimate of Rs. 27,91,697. It also exceeded the balance shown in the revised estimates of Rs. 36,23,790-10-8 by Rs. 7,49,502-1-2 for the reasons accounted for below :—

		Rs.	a.	p.
1.	Extra income realizations (para. 4)...	2,62,291	0	11
2.	Savings in expenditure (para. 5)	2,61,861	14	0
3.	Difference in favour of 1913-14 as compared with 1912-13 in the renewed grants actually required in 1912-13 and that provided in the revised estimate for 1913-14 (Rs. 10,17,956-7-0—Rs. 7,61,000)	2,56,956	7	0
4.	Decrease in value of Reserve stock	24,373	8	7
5.	Decrease shown in the opening balance of revised estimates	0	3	11
		Rs. 8,05,483	2	5
	Less—Excess on amount reserved for additional grants.	55,981	1	3
	Difference Rs.	7,49,502	1	2

LOANS RAISED.

Appendices Nos. 6-A, 6-B, and 6-C.

44. The amount of loans raised up to 31st March 1914 as shown in these appendices aggregate Rs. 6,17,00,500. The total amount expended on Loan Works and Plague stood at Rs. 5,78,07,449-0-9 and the invested balance at Rs. 38,93,050-15-3. Of the sum of Rs. 5,78,07,449-0-9, Rs. 5,59,09,044-0-5 represents expenditure on works for which loans have already been sanctioned and raised, and Rs. 18,98,405-0-4 is the total amount of Capital Expenditure incurred by way of advances from Surplus Loan Balances. The amounts so advanced from the balances in hand of each individual loan are shown in column 7 of Appendix No. 6-B in consonance with the wishes of the Corporation as expressed in their Resolution No. 6569 of 15th February 1912. In addition to this Rs. 2,44,216-4-6 have been advanced from Surplus Cash Balance on works for which loans have yet to be raised. The particulars of these works are given in Appendix 6-C.

45. Of the 60 Lakhs raised during the year, 25 lakhs were taken over by us at par for Sinking Fund and Surplus Funds Investments ; 29 lakhs, being part of loan required in connection with the Tansa Duplication Scheme, were issued to the public at an average rate of Rs. 98-12-3, and the balance of 6 lakhs required for Street Improvements was taken up by the public at an average rate of Rs. 98-8-2. The resulting loss of Rs. 44,745-5-0 was met from the Net Premia Fund.

DEBT AND SINKING FUNDS.

Appendices Nos. 7, 7-A, and 8.

46. The total Capital Debt of the Corporation at the beginning of the year amounted to Rs. 5,90,41,916-3-9 of which Rs. 22,66,416-3-9 represented the Vehar Debt due to Government, and the balance was due to the public. The loans raised during the year aggregated Rs. 60 Lakhs of which Rs. 25 Lakhs, being the second instalment of Rs. 55 Lakhs Loan for Miscellaneous Works, was reserved for Investment of Sinking Fund and surplus moneys and the balance represented the first instalment of Rs. 29 Lakhs of the 70 Lakhs Loan for reduplication of Tansa Main and the first instalment of Rs. 6 Lakhs of the 20 Lakhs Loan for Street Improvements. The amount paid during the year towards the reduction of the Vehar Debt was Rs. 23,738-11-0 and Rs. 1,34,500 were repaid to certain holders of the Debentures of the Drainage Loan of 1878. There was thus a net increase of Rs. 58,41,761-5-0 in the Capital Debt of the Corporation which stood at Rs. 6,48,83,677-8-9 on the 31st March 1914, against Rs. 5,90,41,916-3-9 at the beginning of 1913-14. Of the total debt, Rs. 22,42,677-8-9 represented the amount due to Government. Against the total debt due, the Sinking Fund invested up to 31st March 1914 amounted to Rs. 1,37,82,442-3-5, leaving a net debt liability of Rs. 5,11,01,235-5-4.

47. From statement No. 7 it will be observed that 31 debentures of the aggregate value of Rs. 15,500 of the Drainage Loan of 1878 which were redeemable on 1st January 1906, 1st January 1909, 1st January 1910, 1st January 1912, 1st January 1913 and 1st January 1914 were not surrendered for repayment by the holders up to the close of the year.

48. Appendix No. 8 shows that the outstanding interest on the different Municipal Loans at the beginning of the year amounted to Rs. 1,63,406-2-1 which, together with Rs. 25,84,416-15-6 on account of interest payable during the year under report, gave a total liability of Rs. 27,47,823-1-7. Against this, the net interest paid by the Bank of Bombay during the year under report amounted to Rs. 25,79,281-1-7 against Rs. 25,27,541-15-5 in the preceding year. The outstanding balance at the close of the year under report amounted to Rs. 1,68,541-15-11 against Rs. 1,63,406-2-1 for the preceding year. The outstanding represents 6·13 per cent. of the total interest payable against 6·07 in 1912-13.

49. From Appendix No. 7-A it will be seen that allowing for interest due but not collected, the invested balances of the Sinking Fund on 31st March 1914 amounted to Rs. 1,39,63,185-4-1 and was only Rs. 8,084-4-1 in excess of what should have accumulated for the purpose for which the funds have been created.

50. The subjoined statement shows the book and market value of the paper held in the Sinking Fund at the close of the year. On the basis of the market rates our Sinking Funds are on a thoroughly sound financial basis:—

Name of Sinking Fund.	5 per cent. Municipal Debentures.	4 per cent. Municipal Debentures.	4 per cent. Bombay Improvement Trust Debentures.	3½ per cent Government Paper.	3 per cent. Government Paper.
	Rs.	Rs.	Rs.	Rs.	Rs.
5 per cent. Municipal Loans Sinking Fund	31,66,000	7,52,500	5,97,500	19,83,500	... ...
4 per cent. Municipal Loans Sinking Fund—3½ per cent. basis	.....	18,35,000	23,89,500	18,76,300	.....
4 per cent. Municipal Loans Sinking Fund—3 per cent. basis	.....	.....	86,500	99,500	4,75,900
3½ per cent. Municipal Loans Sinking Fund	.....	24,000	80,000	2,18,300	.....
Face Value	31,66,000	26,11,500	30,53,500	41,77,600	4,75,900
	@ 115	@ 102	@ 101¼	@ 95 11/32	@ 82
Market Value	39,85,900	26,63,730	31,06,937	39,97,441	3,90,238
Difference between Face Value and Actual Value	+ 5,19,900	+ 53,230	+ 53,437	— 1,80,159	— 85,662

EXPENDITURE ON LOAN WORKS.

Appendix No. 9.

51. The total outlay on Loan Works during the year (excluding Plague expenditure which was met from Current Revenue) aggregated Rs. 43,87,474-15-7 against Rs. 17,87,920-10-4 in the preceding year, showing an increase of Rs. 25,99,554-5-3. The expenditure was distributed as under and as compared with the revised estimates does not show large variations except under B. Roads and Overbridges.

		Revised Estimates.			Expenditure.		
		Rs.	a.	p.	Rs.	a.	p.
A.	Buildings and Sanitary Structures...	4,80,202	11	7	3,06,357	11	8
B.	Roads and Overbridges	13,18,308	4	8	8,17,741	0	11
C.	Drainage	16,76,194	0	8	14,91,950	4	11
D.	Water Works	13,06,688	14	11	1[illegible],10,390	10	8
E	Cemeteries	35,870	11	1	13,723	10	0
G.	Miscellaneous	1,67,000	0	0	1,47,311	9	5
	Total Rs. ...	49,84,264	10	11	43,87,474	15	7

The total excesses on individual works in the Revised Estimates amounted to Rs. 5,34,176-14-7 (due mainly to accelerated outlay on the Tansa Re-duplication Works) and the total lapses amounted to Rs. 11,30,966-9-11. The net deficit, therefore, amounted to Rs. 5,96,789-11-4 and the principal works on which lapses occurred were:—

Construction of various overbridges in the City	Rs.	3,03,777
Construction of stables and chawls for bullocks and biggaries of the Health Department	„	91,916
Construction of a Market at Chaupati	„	23,000
Extension of Wari Bundar and other roads	„	70,529
Sewerage of the Elphinstone Reclamation District...	„	56,513
Measures for relieving the surcharging of sewers	„	74,271
Subsidiary works at Love Grove	„	1,07,585
Total ...	Rs.	7,27,591

The original estimates for the year aggregated Rs. 1,00,16,542-2-4 against which it will be seen the actual expenditure was only Rs. 43,87,474-15-7. Our loan balance at the close of the year aggregated Rs. 38,93,050-15-3. I have more than once advanced for consideration my respectful representation that the methods being followed in providing for and financing Loan Works expenditure cannot but lead to the results which ensue from year to year, *viz.*, overborrowing and large lapses on the expenditure anticipated.

The causes which have prevented or delayed the carrying out of the works anticipated have in many cases been beyond the control of the Executive Departments, and it is doubtless often necessary to provide funds for a work admittedly urgent, which, nevertheless, it becomes impossible to execute within the year. As, however, in the case of the Revenue Expenditure undue optimism must be guarded against, funds should not be asked for or provided unless all the details of the work proposed are in a state of advanced readiness.

PLAGUE EXPENDITURE.

Appendix No. 9-A.

52. The charges booked on account of Plague operations during the year, as shown in Appendix No. 9-A, amounted to Rs. 1,24,682 against Rs. 1,47,763 in the preceding year, showing a decrease of Rs. 23,081, which occurred principally in the outlay on disinfection, maintenance of lamps and rat destruction.

53. The total expenditure incurred on Plague from the commencement of operations to the close of the year under report aggregated Rs. 78,46,895 and was financed as under:—

		Rs.
(1)	From the 20 Lakhs Plague Loan	20,00,000
(2)	From the Government Contribution	14,50,000
(3)	Amount recovered from the City Improvement Trust under Section 79 (3) *b* (i) and (iii) of their Act and transferred to meet the liability incurred out of Loan Funds... ...	16,00,000
(4)	From current revenue	27,96,895
	Total ...	Rs. 78,46,895

LIABILITIES AND ASSETS.

Appendix No. 10.

54. The gross liabilities of the Corporation were Rs. 7,57,51,644-12-5 at the beginning of the year, and were further increased by the raising of loans to the extent of Rs. 60 lakhs. At the close of the year they were reduced by Rs. 1,35,34,726-6-4 by the transfer of the accumulated interest and instalments on account of Sinking, &c., Funds to the Income and Expenditure Account. At 31st March 1914 the gross liabilities thus stood at Rs. 6,84,07,859-4-9.

Assets.

		Rs.	a.	p.	Rs.	a.	p.
A.	Cash and Paper available for expenditure on Revenue and Capital projects—						
	(1) Cash Balance in Office and Bank Treasuries	2,70,679	1	6			
	(2) Surplus Funds Deposits	58,07,764	11	2			
	(3) Loan Funds	38,93,050	15	3			
					99,71,494	11	11
B.	Sinking Funds Investments				1,37,82,442	3	5
C.	Special Funds Investments...				8,67,119	10	10
D.	Advances recoverable, Paper Deposits and other items				11,11,973	6	0
E.	Reserve Stock				4,25,893	14	0
F.	Properties				7,21,12,975	13	5
G.	Debt due by the City Improvement Trust for lands transferred to them				17,15,289	5	11
				Rs.	9,89,87,189	1	6

55. The booked assets, it will be seen, exceeded the liabilities by Rs. 3,15,79,329-12-9, showing an increase of Rs. 1,56,40,437-8-2 over the preceding year. Eliminating the amount of Rs. 1,35,34,726-6-4 from the above increases for reasons assigned in para. 54, there is a net increase of Rs. 21,05,711-1-10 in the assets over the preceding year, an explanation of which will be found under the head "Deposits," and other "Debt," heads which are dealt with under "Suspense Accounts," paras. 71 to 82, where remarks on the Reserve stock will also be found.

56. Though our assets far exceed our liabilities, I cannot vouch for the correctness of the results until the revision of the valuation of our properties is completed and all properties that have ceased to exist are eliminated and all properties that have been acquired by gift or through revenue have been properly accounted for.

Investments and Invested Balances.

57. When the original Budget Estimates were framed, a sum of Rs. 2,00,000 was estimated to be derived from interest on investments of surplus loans and other balances. The actual realizations, however, amounted to Rs. 3,06,891, or Rs. 1,06,891 in excess of the original estimates, due to additions made to the surplus balances in a very small measure in consequence of increased income realizations towards the end of the year, but principally as explained in paras. 5 and 17 to the expenditure in both Revenue and Loan Works falling far short of the estimates.

The income of Rs. 3,06,891 was derived from the following sources :—

(1)	On Current Account Deposits at 1 per cent., 2 per cent. and 2½ per cent.	Rs.	7,050
(2)	On Fixed Deposits	„	2,33,690
(3)	On Investments in Government and other Securities ...	„	66,151
		Rs.	3,06,891

58. Inclusive of investments on account of Sinking, Insurance, Worn-out Mains Renewals and Net Premia Funds, the total sum of investments and re-investments arranged for by this Department during the year aggregated Rs. 2,33,11,000 thus :—

(1)	Current Account Deposits	Rs.	25,25,000
(2)	Fixed Deposits	„	1,95,50,000
(3)	Sinking and Special Funds	„	12,36,000
		Rs.	2,33,11,000

59. The average rate of interest on Fixed Deposits was 4·8 per cent. against 4·1 per cent. in the preceding year. The rates realized for fixed deposits ranged from 2 per cent. to 6¼ per cent. The maximum rate realized in the preceding year was 7 per cent.

60. It will be observed from Appendix No. 10-B that the invested balances at the close of the year stood at Rs. 2,50,19,777-8-8 or Rs. 51,37,242-13-3 more than the preceding year.

61. There was an increase of Rs. 20,08,824 in the surplus funds due (1) to excess of income over expenditure (including plague write-off) of about Rs. 7,00,000, (2) to recoupment of advances made for new works financed from Loan Funds of about Rs. 10,00,000 and (3) to an increase of about Rs. 3,00,000 in the amounts of deposits received from contractors, &c. There was also an increase in the Loan Fund balances of Rs. 17,12,525 after meeting the expenditure of Rs. 43,87,475 from the loans aggregating Rs. 60 lakhs raised during the year, and effecting the transfer from Loan Funds to Revenue of the write-off of Rs. 1,00,000 for Plague expenditure hitherto outstanding in the Loan Funds Account. The increase of Rs. 11,42,558 in the Sinking Fund requires no explanation. The decrease in the Special Funds is due to payment from this fund of the Discount, Stamp, Printing, &c., charges in connection with the loans raised during the year.

SPECIAL FUNDS.

Municipal Buildings Fire Insurance Fund.

62. The investment of the annual instalment of Rs. 10,000, plus the investment of accrued interest on invested balances, swelled the fund from Rs. 1,67,011-9-2 on 31st March 1913 to Rs. 1,82,857-3-10 at the close of the year.

WORN-OUT WATER MAINS RENEWAL FUND.

63. After meeting the expenditure on renewal works this year, *viz.*, Rs. 19,604-9-8, the fund with the interest realized from invested balances increased from Rs. 5,36,515-3-1 at the close of the past year to Rs. 5,40,011-14-5 at the close of the year under review.

NET PREMIA FUND.

64. The amount to the credit of this fund, which stood at Rs. 2,05,858-8-2 at the beginning of the year, decreased to Rs. 1,44,250-8-7 at the close of the year. The diminution of Rs. 61,607-15-7 was due to the payment of Discount, Stamp, Printing, &c., charges in connection with the loans raised during the year, less accrual of interest and profit on transfers to the Sinking Fund.

WATER WORKS ACCOUNT.

Appendix No. 11.

Income and Expenditure Account.

65. In the original Budget Estimates, the Water Works income was placed at Rs. 21,60,000 and the expenditure at Rs. 21,42,298 providing for a surplus of Rs. 17,702 against which the income amounted to Rs. 23,47,997-1-1 showing an increase over the Budget Estimates of Rs. 1,87,997-1-1. The expenditure amounted to Rs. 20,09,475-0-11 or Rs. 1,32,822-15-1 less than the estimate. Adding to the estimated surplus of Rs. 17,702, the excess of income amounting to Rs. 1,87,997-1-1 and the savings in expenditure amounting to Rs. 1,32,822-15-1 we get a net surplus revenue of Rs. 3,38,522-0-2.

66. As compared with the income for the preceding year (excluding the item of interest on investments) the year under report shows an increase of Rs. 1,14,485-10-1 while the expenditure shows an increase of Rs. 48,098-15-7.

67. The statement of income realized for the year under report as compared with the preceding five years for water supplied by meter measurement required by Corporation Resolution No. 6570 of 15th February 1912 will be found detailed in Appendix No. 11.

ASSETS AND LIABILITIES.

Appendix No. 12.

68. The liabilities at the close of the preceding year stood at Rs. 2,51,20,858-14-11. These were further increased to Rs. 2,84,70,400-14-11 during the year owing to the addition of Rs. 4,49,542 being the portion of the 55 Lakhs Loan for Miscellaneous Works and of Rs. 29,00,000 being the first instalment of the 70 Lakhs Loan for the Re-duplication of Tansa Main and other auxiliary works. The payment of Rs. 23,738-11-0 to Government towards the reduction of the Vehar Debt and of Rs. 49,925-12-2 towards the repayment of the Water Works portion of the Drainage Loan of 1878 reduced the liabilities to Rs. 2,83,96,736-7-9 at the close of the year.

69. The assets aggregated Rs. 3,90,63,019-1-4 against Rs. 3,56,22,815-5-5 at the close of the year, showing an increase of Rs. 34,40,203-11-11 which was made up of (1) works executed out of different loans and savings on loans (*vide* Appendix No. 9) and (2) additions to the Sinking Fund Investments.

70. From Appendix No. 12 it will be seen that the excess of assets over liabilities amounted to Rs. 1,06,66,282-9-7, or Rs. 55,15,795-12-4 more than the amount shown in the report for the preceding year.

SUSPENSE ACCOUNT.

A.—Deposits.

71. The cash deposit outstanding at the close of the year aggregated Rs. 6,53,462-8-1 against Rs. 5,95,796-13-2 in the year 1912-1913, and were made up of—

		Rs.	a.	p.
(1)	Cash deposits from contractors	2,44,964	11	11
(2)	Cash deposits received through departmental officers	84,380	1	3
(3)	Other cash deposits	2,75,532	6	7
(4)	Deposits on account of works performed for private parties	48,585	4	4
	Rs.	6,53,462	8	1

B.—Inter-departmental Charges.

1. *Workshops.*

72. The opening balance was Rs. 15,773-6-1 or Rs. 4,510-4-0 more than in the preceding year.

The cost of labour and supervising staff employed, and of stores used on the works turned out in the Shops during the year amounted to Rs. 2,14,244-13-8 against Rs. 1,99,885-0-2 in the previous year. The total outlay in the Workshops during the year, together with the opening balance aggregated Rs. 2,30,018-3-9. The recoveries made during the year including Rs. 114-14-0 realised by the sale of saw-dust and Rs. 3,363-0-3 realised by the sale of unserviceable stores amounted to Rs. 2,09,492-7-11, and the outstandings at the end of the year, including incomplete jobs and value of stores issued in March 1914, aggregated Rs. 23,691-9-1. The outstandings are made up of the following items:—

	Rs.	a.	p.
Stores issued in March 1914 and charged in the accounts for 1913-1914 under the system of stores accounts	9,904	9	0
Outstanding bills	12,185	1	10
Incomplete jobs	1,601	14	3
Rs.	23,691	9	1

By charging 25 per cent. on all jobs the sum of Rs. 39,519-4-3 was obtained, adding to which (1) the sum of Rs. 3,477-14-3 realized by the sale of unserviceable stores and saw-dust and (2) Rs. 1,108-8-4 realised by the hire of plant, &c., the gross earnings of the Shops aggregated Rs. 44,105-10-10 from which the following Shop and Supervision, &c., charges amounting to Rs. 40,939-13-7 had to be met:—

		Rs.	a.	p.
(1)	Supervising Establishment, Rent and Contingencies	26,700	1	6
(2)	Shop charges	14,239	12	1
	Rs.	40,939	13	7

The net profit of the Workshops was thus Rs. 3,165-13-3.

It should, however, be brought out that this result obtained, as no portion of the salary of the Deputy Executive Engineer, Mechanical Branch, no interest on Capital, or expenditure on repairs to buildings was charged to the account.

From a strictly commercial standpoint therefore there was no profit.

2. *Other Works.*

73. The outstanding balances on 31st March 1914 in respect of Departmental and Private Works executed by different branches of the Executive Engineer's Department (excluding Workshops) and the Health Department are contrasted below with those on 31st March 1913:—

	Balance on 31st March 1913.	Balance on 31st March 1914.	More.	Less.	REMARKS.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
A.—DEPARTMENTAL WORKS					
(1) Drainage Branch.	793 10 10	(*a*) 1,636 3 11	842 9 1	.....	(*a*) Out of this, Rs.893-1-11 represent the value of stores issued in March 1914 and included in the accounts for 1913-14.
(2) Roads and Buildings Branch.	4,438 14 3	(*b*) 4,224 0 8	.....	214 13 7	(*b*) Out of this, Rs. 674-6-3 represent the value of stores issued in March 1914 and included in the accounts for 1913-14.
(3) Water Works Branch.	4,157 15 5	(*c*) 5,434 7 3	1,276 7 10	.....	(*c*) Out of this, Rs. 2,613-3-5 represent the value of stores issued in March 1914 and included in the accounts for 1913-14.
Rs. ...	9,390 8 6	11,294 11 10	2,119 0 11	214 13 7	
B—PRIVATE WORKS					
Drainage Branch.					
On account of Ordinary Works.	1,307 7 8	(*d*) 931 3 4	.....	376 4 4	(*d*) Out of this, Rs. 75-6-3 represent the value of stores issued in March 1914 and included in the accounts for 1913-14.
Roads and Buildings Branch.	23,468 11 2	19,760 2 0	.....	3,708 9 2	
Water Works Branch.	1,270 6 10	(*e*) 5,501 7 3	4,231 0 5	.....	(*e*) Out of this, Rs. 3,473-7-10 represent the value of stores issued in March 1914 and included in the accounts for 1913-14.
Health Department (Removing Chokes).	11,886 0 0	10,526 14 5	.....	1,359 1 7	
Rs. ...	37,932 9 8	36,719 11 0	4,231 0 5	5,443 15 1	

The account shows heavy outstandings in respect of departmental works owing to the fact that several bills for large amounts were submitted for adjustment after the accounts were closed and some had to be kept back on account of excesses over grants. The outstandings in respect of Private Works, Roads and Buildings Branch, are due to bills against the B. E. S. and T. Co., Ltd., and Callender's Cable and Construction Company, Ld., not having been recovered from them before the close of the year, as also to bills for levelling, metalling and draining private streets not having been preferred in consequence of the works remaining incomplete. With regard to outstandings in respect of Private Works, Water Works, a large number of bills for water connections remained unrecovered. In regard to Private Works, Health Department, an additional grant has been applied for to write off irrecoverable charges amounting to Rs. 9,034-5-6, and the matter is under the consideration of the Sub-Committee of the Standing Committee.

Advances to Municipal Officers.

74. The outstandings on 31st March 1914 aggregated Rs. 24,301-11-2 against Rs. 31,113-7-4 on 31st March 1913. Of this Rs. 5,336-11-9 were adjusted during 1914-15 on the Budget provision becoming available and of the balance, Rs. 6,185 represent the sums allotted to the different Heads of Departments as standing advances for Contingent expenses, Rs. 4,000 is the sum advanced to meet legal cost in connection with an appeal to the Privy Council by Narma Bros. in *re* the acquisition of land at Elphinstone Road Overbridge and the remaining amount is comprised of small items most of which have been adjusted in 1914-15.

Advances to Contractors.

75. The outstandings at the close of the year amounted to Rs. 21,812-2-2 against Rs. 26,426-15-8 during 1912-13. Of this, Rs. 21,630-10-4 have already been recovered during 1914-15.

Miscellaneous.

76. Out of the outstandings of Rs. 49,393-10-8 the following are the principal items :—

		Rs.	a.	p.
(1)	Acquisitions of land beyond the regular line of the street to be adjusted against the sale proceeds of the lands ...	14,301	5	5
(2)	Acquisition of land for the new burning ground for Agris and Kolis of the Sewri Section on behalf of Mr. Ismael Haji Kasam	10,680	14	5
(3)	Remodelling house gullies	925	12	3
(4)	Arbitration and other expenses in connection with the purchase of the Tramways	5,623	14	10
(5)	Expenditure in the suit filed by the Tramway Company against the Municipality	4,410	5	7
(6)	Cost of filling in the Framji Cawasji Tank to be subsequently adjusted against the sale proceeds of reclaimed land ...	3,619	14	2

The amount of Items No. 1 and 6 will be adjusted when the land is sold. The recovery of the amount under Item No. 2 is under dispute. The outstanding under Item No. 3 is chiefly due to incomplete works. With regard to Items 4 and 5 no progress has been made, but it is my intention to shortly make a full report.

Advances from Surplus Cash Balance for new works to be subsequently provided for under a new loan to be raised.

77. Up to 31st March 1914 the grants sanctioned by the Corporation from Surplus Cash Balance as Advances for New Works on Capital Account amounted to Rs. 7,13,195-5-10 and the actual expenditure to Rs. 2,44,216-4-6 (*Vide* Appendix No. 6-C).

Personal Account of the Chief Auditor and Accountant, B. B. & C. I. Railway.

78. An amount of Rs. 8,007 was advanced for duplicating syphon No. 8.

Reserve Stock.

79. The receipts of General Stores during the year aggregated Rs. 7,88,651-4-3 and the Issues Rs. 7,88,855-1-5 which is an indication, if any were required, of the care exercised in pre-audit to see that demands on an average are confined to the requirements of the year.

80. As anticipated in the last report the balance of Surplus and Obsolete Stores was further reduced from Rs. 26,868-6-9 to Rs. 8,761-2-8. It was in the year 1898-1899 that this question of surplus and obsolete stores was first taken up by me, so that it has taken 15 years for this account to be brought practically to vanishing point. The writes-off have been made gradually year by year, and I feel sure that it has not been realized that the loss to the Municipality in these years in this direction has been Rs. 2,07,325. The Standing Committee and the Corporation may rest assured that losses of such a nature will be impossible under the revised system of a Central Stores and the pre-audit of all purchases which, after much discussion and misapprehension, was introduced in 1904-05, for no special stores are now purchased, unless it is known on what works they are to be used, nor are excessive stocks stored for such or for the ordinary working requirements of the various departments.

81. During the year under report, the verification of stock was undertaken by two independent verifiers. Mr. K. R. Vacha was entrusted with the work of verifying the stores at the Central Stores, Bellasis Bridge Pipe Depôt and the Municipal Workshops, and Mr. A. D. Simkins was engaged on verifying the stores on the lines of the water-supply. The former is to hand and the results are distinctly satisfactory. Mr. Simkin's reports I am still awaiting.

82. The balances of the general, *i.e.*, current serviceable stores, are compared below for the last five years :—

	Rs.	a.	p.
Balance at the close of 1909-10	4,89,841	0	8
" " " 1910-11	3,46,008	14	6
" " " 1911-12	3,07,380	9	6
" " " 1912-13	3,01,553	0	8
" " " 1913-14	3,01,349	3	6

I feel sure that the efforts on the part of all concerned to keep down our balances and confine the purchases of the year as far as possible to the requirements of the year will be appreciated, seeing that the balance in reserve has been maintained at a little over 3 lakhs although the purchases during the year aggregated Rs. 7,88,651 against only Rs. 5,84,961 in the year 1912-13.

83. A test audit of the Stores Accounts was commenced in April and completed at close of July 1914. The result will be communicated to you in detail as early as practicable.

The balance of Reserve Stock in hand at the close of the year as per the General Books of this Office amounted to Rs. 4,25,893-14-0 against Rs. 4,50,267-6-7 at the close of the preceding year, showing a decrease of Rs. 24,373-8-7 as detailed below :—

DEPARTMENTS.	1912-1913.			1913-1914.			More.	Less.
	Serviceable Stores.	Surplus and Obsolete Stores.	Total.	Serviceable Stores.	Surplus and Obsolete Stores.	Total.		
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1. General Stores Department.	3,01,553 0 8	26,868 6 9	3,28,421 7 5	3,01,349 3 6	8,761 2 8	(a)3,10,110 6 2	.....	18,311 1 3
2. Water Works Imprest ...	3,283 8 5	.....	3,283 8 5	3,908 13 3	.....	3,908 13 3	625 4 10	.....
3. Executive Engineer's Department ...	2,164 14 0	.....	2,164 14 0	249 6 0	.....	249 6 0	.....	1,915 8 0
4. Line Suspense Account ...	1,16,397 8 9	.....	1,16,397 8 9	1,11,625 4 7	.....	(b)1,11,625 4 7	.....	4,772 4 2
Total ...	4,23,398 15 10	26,868 6 9	4,50,267 6 7	4,17,132 11 4	8,761 2 8	4,25,893 14 0	625 4 10	24,998 13 5
							Less—Increase Rs.	625 4 10
							Net—Decrease Rs.	24,373 8 7

(a) The difference between this amount and that shown by the Storekeeper is Rs. 7,233-10-2 which is due to the non-adjustment of the value of stores issued to the Fire Brigade, Water, &c. Departments on account of grants having been found insufficient and to the excesses and deficiencies shown in the verification sheets not having been adjusted during the year under review and to some minor adjustments which will be made in the accounts for 1914-15.

(b) The difference between this amount and that shown by the Storekeeper is Rs. 25 which is due to the amount recovered in the last week of the past official year from a party on account of damage done to the 24" C. I. bend at Kurla not having been accounted for by the Storekeeper during that year.

Street Improvements.

84. The amounts made available on account of acquisition of set-backs during the year were as under :—

	Rs.	a.	p.
Budget provision from Revenue	1,00,000	0	0
Renewed grant	748	11	9
Additional grant	1,613	0	0
Amount received as concession money from owners of properties for works allowed to be executed within the set-back line	16,483	10	6
Amount advanced from Surplus Cash Balance to be subsequently adjusted against a new loan to be raised	4,00,000	0	0
Rs.	5,18,844	6	3

Against this sum only Rs. 3,32,925-9-8 were actually paid leaving a balance of Rs. 1,85,918-12-7 which has been renewed for expenditure during 1914-1915.

The undischarged commitments up to 30th June 1914 in regard to set-backs already acquired and sanctioned to be acquired amounted to Rs. 18,60,481. Adding to this the unadjusted expenditure of Rs. 2,32,059 from advances made in 1912-1913 and 1913-1914 the total liabilities for which funds will have to be forthcoming have, it will be seen, advanced to the high figure of Rs. 20,92,540.

The Street Improvement Grant during the year was utilised for acquiring vacant lands to a considerable extent in connection with the construction of new roads which are being widened for purposes of development.

A loan of 20 lakhs was sanctioned for ordinary set-back improvements only in 1912-13; we have raised only 6 lakhs of the amount and it will be seen that the sanctioned balance has already been exceeded by nearly 7 lakhs. The question is, however, I am aware, before you in other papers.

General Financial Position.

85. With the very great uncertainty attending estimates of Expenditure framed by the Executive pointed out in the preceding portion of this report it is exceedingly difficult to get at any accurate conception of our balance of borrowing powers. On the latest available data I calculate it to be between Rs. 1,68,00,000 and Rs. 2,25,00,000 thus :—

Income per Budget of 1914-15			Rs.	1,23,87,000
Deduct—				
Fire Tax...	Rs.	1,86,550		
Water Tax	„	21,80,000		
			„	23,66,550
		Balance	„	1,00,20,450
Add—				
(1) Additions to Income on latest available data ...			„	1,34,550
(2) Difference between General Tax at 9½ per cent. and the maximum at 12 per cent.			„	12,44,000
		Total Income	„	1,13,99,000
Expenditure per Budget for 1914-15			„	1,26,35,000
Deduct—				
(a) *Fire Brigade*—				
Ordinary expenditure	Rs.	1,71,000		
Debt	„	36,000		
		Rs.	2,07,000	
(b) *Water Works*—				
Ordinary expenditure	„	4,04,000		
Debt	„	16,55,000		
		„	20,59,000	
				22,66,000
Net normal expenditure except Fire Brigade and Water Works...				1,03,69,000
Balance of taxation against which Loans can be raised for purposes other than Fire Brigade and Water Works				10,30,000
		Total ...		1,13,99,000

Against this balance of Rs. 10,30,000 loans could be raised to the extent of Rs. 1,68,80,000; but it is so evident that considerable savings again and again accrue in expenditure estimates, that I feel confident in assuming the margin realizable from extra taxation at Rs. 14,00,000 and against this sum we could borrow further to a little over 2¼ crores, besides responding with ease to any further expenditure on Water Works and Fire Brigade. With such a wide margin of borrowing powers, with the surplus balances increased to Rs. 43,73,292, with the near approach of the increase in the water supply and the completion of the new Docks, we can look forward with complacency to the execution of the further projects and the assumption of the further obligations which this expanding and progressive city must make on its progressive Municipal government.

General Audit Considerations.

86. I have drawn attention to the marked and increasing disparity between expenditure estimates and actuals. There has also, in my opinion, been a tendency in the Executive Engineer's Department to hasten expenditure before a proper grant has been provided, and the money thus rendered actually available. There is no objection to a system of transfers when it is found that the money is not required for or cannot be fully spent on for the work for which it was originally provided, while another work can be done and is urgently required. But the transfer must be properly sanctioned and must not be allowed to lead to careless estimating. The statements of excesses incurred over grants which stood at under Rs. 9,000 in 1911-1912 reached Rs. 22,000 in 1912-13 and is now over Rs. 23,000. Some amounts have had perforce to outstand in suspense account because the expenditure was incurred before the grants were obtained. Not much harm has been done but I feel I must emphasize the tendency, for the rules and regulations as they exist have their base in the procedure as laid down in the Act, and this procedure must not be departed from except in the most special circumstances.

Test Audit.

87. In addition to the Test Audit of the Stores Department alluded to in para. 83 general test audit was continued throughout the year and 54 reports were made as under :—

Health Department	34
Road Department	17
Drainage Department	2
Fire Brigade	1
	54

88. For the major part test audit was confined to the halalkhore service of the Health Department, where I was convinced the return was not commensurate with the outlay, and the efforts of the past years had to be brought to finality.

All the facts have been put before you and a Sub-Committee of the Corporation is now sitting to investigate the matter. I should, however, like to place on record that when this department started its test audit in 1910-1911 the number of halalkhores was 2,712. In 1911-1912 this was reduced to 2,682, in 1912-1913 to 2,625 and finally in the year under review to 2,505 and this, notwithstanding the fact that during these years the number of halalkhores in F and G Wards had to be increased by 38 men owing to the extension of the city northwards.

Allowing for this, the total reduction since 1910-1911 has been 245 men.

The Executive Health Officer has in his No. 33045 of 19th January 1914 promised to still further reduce this number to 2,340, making the total reduction 410 men with an annual saving of Rs. 64,000.

The scavengering staff which is estimated to cost us 4¾ lakhs per annum has still to be seriously test-audited. From my past reports it will be seen how high the percentage of absentees is on casual test audits.

Road Department.

89. Very little attention could be devoted to this department as our activities were confined mainly to the Health Department. Indications however point to there being no inconsiderable leakage in materials and cartage and possibly to a limited extent in labour. I have, no doubt, that this will be disputed, but if my staff and hands are strengthened, I think, with your continued support, the expenditure in this direction can be curtailed, not necessarily in amount, but in respect to cost per standard unit.

Drainage Department.

90. On an examination of the Ledger maintained at the Drainage Office at Babula Tank it was found that several alterations had been made in the issues of "Cement" and that the entries did not agree with the rough ledger from which it purported to be copied. The conclusion I came to was that there had been a falsification of accounts.

Fire Brigade.

91. A test audit of the accounts of the Fire Brigade Department was made, and I have great pleasure in reporting that the results were satisfactory. Some alterations had to be made from an accounts point and were readily adopted by the Chief Officer.

Water Works Department.

92. The accounts at Chinchpokly were partially test audited and from the cursory examination I have made I am not satisfied that things are as they should be, but the difficulty is for me to get the time to report fully for consideration the direction in which improvements can be made and obvious defects remedied.

93. The cost of the test audit staff engaged in this office was only Rs. 4,160 for the year.

94. The test audit is a duty which by its very nature is not looked upon with appreciation by those whose expenditure is criticised; but I hope that all Departments will realize that it is necessary and salutary so long as it is not expected to yield too rigid results.

Fire Brigade.

95. The Fire Brigade tax realized during the year was Rs. 2,44,282-15-10 or Rs. 11,254-0-7 more than in the previous year. This increase was due to the expansion in the rateable value of properties. The expenditure on the Fire Tax Department including interest and sinking fund charges on the Fire Brigade loan and on a portion of the 55 lakhs loan was Rs. 1,65,023-15-6. The reasons for the decrease in expenditure have already been explained in para. 40. There was an excess of income over expenditure of Rs. 79,259-0-4 which went to increase the surplus from Rs. 94,277-12-8 to Rs. 1,73,536-13-0. Deducting from the latter figure the sum of Rs. 4,491-5-8 to be renewed in 1914-1915 on account of charges incurred during 1913-1914 but not paid before the close of the year, the net surplus to the credit of the Fire Tax stands at Rs. 1,69,045-7-4.

General.

96. The subjoined table shows the volume of work dealt with in my department during the year under review as compared with previous years :—

YEARS.	NATURE OF WORK.			Inward Letters.	Outward Letters.
	Cash Payments to Employés.	Receipt Vouchers.	Debit Vouchers.		
	Rs.	No.	No.	No.	No.
1897-98	19,93,311	22,217	53,907	20,362	6,117
1909-10	33,75,524	36,691	81,790	19,642	12,296
1910-11	30,95,813	37,351	90,419	17,878	11,410
1911-12	31,55,091	37,325	85,514	16,695	10,718
1912-13	34,68,577	39,993	90,657	18,513	10,298
1913-14	36,00,494	40,031	99,625	* 18,472	11,772
Percentage of increase in 1913-14 over 1897-98.	80·63	84·23	84·8	9·28 Decrease.	92·44

* Exclusive of bills, summaries, muster rolls, &c., which have been separately numbered.

97. I also subjoin a statement showing the cost of my department in 1913-14 and 1897-98 and the percentage of cost to Income and Expenditure :—

Year.	Cost of Staff at maximum rate of pay.	Income.	Expenditure.	Percentage of Cost of Staff to Income.	Percentage of Cost of Staff to Expenditure.
	Rs.	Rs.	Rs.		
1897-98	62,754	(a) 65,98,064	(b) 68,86,527	·95	·91
1913-14	(c) 89,695	1,28,76,501	1,20,48,926	·69	·74
Increase	26,941 or 42·93 per cent.	62,78,437 or 95·16 per cent.	51,62,399 or 74·96 per cent.	27·37 Decrease.	18·68 Decrease.

The percentage of cost of staff to Income and Expenditure for the year 1912-1913 was ·70 and ·76 respectively.

(a) Excluding a rebate of Rs. 4,87,055 to current revenue in respect of plague expenses debited to Revenue in 1896-97 and Rs. 1,10,442 on account of interest on the investments of Sinking and Special Funds.

(b) Excluding Rs. 5,00,000 on account of plague expenses debited to Revenue in 1897-98 which were subsequently transferred to Loan Funds and Rs. 1,10,442 on account of investments of interest realised on Sinking and Special Funds.

(c) Excluding cost of stores, establishment transferred to General Stores and including Rs. 1,449 on account of plague staff employed in this department.

98. I take this opportunity to represent that my office cannot continue to work efficiently under the present conditions of ever increasing normal work of extended avenues of investigation and audit without an increase in the supervising establishment and without an increase in the number of men drawing Rs. 100 and over.

In my predecessor's time—

the appointments above Rs. 100 constituted ...	...	25·6	per cent. of the staff.
the appointments from Rs. 51-99 constituted	...	16·3	„ „
the appointments below Rs. 51 constituted ...	...	58·1	„ „
Now the appointments above Rs. 100 constitute	...	18·7	„ „
the appointments from Rs. 51-99	...	21·9	„ „
and the appointments below Rs. 51	...	59·4	„ „

In my predecessor's time the supervising staff cost 60 per cent. of the total outlay on staff. It is now reduced to 52 per cent.

The percentage of cost of the whole staff to total expenditure has been further reduced from ·91 per cent. to ·74 per cent. or by nearly 19 per cent., while if you look at the table of work which I have given in para. 96 you will find that the work has increased from 80 to 90 per cent. Practically every other department of importance has been reorganized and the salaries of officers and staff has been raised very considerably. My department remains practically what it was 17 years ago—in many cases 30 years ago. I feel sure that you have only to consider the question to realize how necessary it is that my department should no longer be subjected to the strain to which both officers and men are now subjected on salaries which compare most unfavourably with those drawn in other departments and most unfavourably with rates ruling 15 and 20 years ago.

Personnel.

99. I was on combined leave for one year, one month and 13 days from 2nd September 1912 to 14th October 1913. Mr. R. Peel, who was kindly lent by the B. B. & C. I. Railway, conducted the duties of the Chief Accountant from 1st October 1912 to 14th October 1913.

Mr. Meherji J. Antia, First Assistant Accountant, went on three months' privilege leave from 10th January 1914 and Mr. Harischandra Ramchandra, Second Assistant, acted for him. My Head Clerk, Mr. D. B. Aras, acted as Second Assistant.

My whole staff worked with a willingness for which I cannot be too thankful. In Mr. Peel's report I was glad to notice an acknowledgment of the assistance which Mr. Maneckshah Cawashah Talyarkhan, the Deputy Accountant, had been to him.

Mr. Antia and Mr. Harischandra have worked well; the former requires more experience, the latter is quite useful.

Mr. Aras, who acted for a short time as Second Assistant, worked extremely well, as he always does.

Mr. Bulsara continued indefatigably his test audit duties. I cannot thank him enough for his zeal.

Mr. Gangadas Fadia deserves more pay than he draws.

100. The following are the Appendices attached to my report :—

No. 1. Revenue Account.

No. 2. Statement of Income realized during 1913-14.

No. 3. Statement of Town Duties collected and Refunds allowed in 1913-14.

No. 3 (*a*). Statement of Net Town Duties collected from 1904-05 to 1913-14.

No. 3 (*b*). Statement of Gross Town Duties levied during the five years ending 31st March 1914, Refunds allowed and the Net Income realised during that period.

No. 3 (*c*). Statement showing Town Duty Collections from each source month by month with the refunds admitted for the year 1913-14, as contrasted with those for the year 1912-13.

No. 4. Statement showing the final sanctioned expenditure grants for 1913-14.

No. 5. Statement showing the expenditure for 1913-14 as compared with the final sanctioned grants and the actuals for the preceding year.

No 5 (*a*). Statement showing the expenditure incurred on new works (Revenue) as compared with the sanctioned grants and the unexpended balances renewed.

No. 6. Statement showing the Surplus Cash Balance on 31st March 1914.

No. 6 (*a*). Statement showing the amounts of loans raised, the expenditure incurred therefrom and the invested balances remaining on 31st March 1914.

No. 6 (*b*). Statement showing (1) the various Municipal Loans and their amounts, (2) the expenditure incurred against each of them, (3) the amounts withdrawn temporarily from their unutilized balances to meet the cost of new works, &c., and (4) invested balances of the Loans on 31st March 1914.

No. 6 (*c*). Statement showing the expenditure advanced from surplus cash balance for new works to be subsequently provided for under a new Loan to be raised.

No. 7. Statement showing the outstanding loans due by the Municipality on 31st March 1914.

No. 7 (*a*). Statement showing the amount which should have accumulated in the Sinking Fund on the basis of the fixed instalments and the amount actually invested up to 31st March 1914.

No. 8. Statement showing the interest outstanding on different Municipal Loans on 31st March 1914.

No. 9. Statement showing works executed out of Loan Funds during 1913-14.

No. 9 (*a*). Statement showing expenditure on Plague operations for 1913-14 contrasted with the figures for 1912-13.

No. 10. Statement of Assets and Liabilities on 31st March 1914.

No. 10 (*a*). Statement showing expenditure on different Loan Works upto 31st March 1914.

No. 10 (*b*). Statement showing the Invested Surplus Loan and Reserve Fund Balances on 31st March 1914 as compared with those on 31st March 1913.

No. 11. Water Works Income and Expenditure Account including Statement of Income realizations for 1913-14 and preceding 5 years from water supply through meters.

No. 12. Water Works Assets and Liabilities.

No. 13. Statement of total Receipts and Disbursements for the year ending 31st March 1914.

No. 14. Statement of Liabilities incurred on Street Improvements and the Rates and Amounts actually paid.

No. 15 & 15 (*a*). Statement of Income and Expenditure of the Bombay Municipality from 1865 to close of the financial year 1913-14.

No. 16. Contrasted Statement of Income and Expenditure from the year 1865 to the Financial year 1913-14.

I have the honour to be,

Sir,

Your most obedient servant,

W. E. WAITE,

Chief Accountant.

Appendix No. 1.

Revenue Account for 1913-1914.

Revenue.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Taxation Proper.			
1. General Tax	48,85,805 4 3		
2. Wheel Tax and Tolls	5,61,499 11 11		
3. Town Duties	17,30,637 0 0		
4. Licenses	1,29,771 2 5		
5. Receipts from Government for Liquor Licenses.	1,43,750 0 0		
6. Receipts from Government for Tobacco Duty	2,91,283 3 11		
		77,42,246 6 6	
Services rendered.			
7. Halalkhore Tax	13,85,127 15 6		
8. Water Tax and other Miscellaneous Water Works Revenue	22,85,434 0 0		
		36,70,561 15 6	
Returns from Property and Miscellaneous.			
9. Market Receipts	5,98,239 13 2		
10. Public Gardens	10,769 10 10		
11. Tramway Rent	54,592 11 3		
12. Contribution from Municipal Servants towards Pension, &c., Fund	40,788 13 11		
13. Interest on Investments of Surplus Loan and other Balances	3,06,891 5 2		
14. Interest at 3 per cent. on Corporation lands made over to C. I. Trust	27,667 9 5		
15. Miscellaneous (a)	4,24,742 11 2	14,63,692 10 11	
			1,28,76,501 0 11
	Total Rs.		1,28,76,501 0 11

Expenditure.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
1. General Superintendence	3,11,659 3 11		
2. Assessment and Collection and Revenue and Refund Audit Departments	4,41,694 2 10		
3. Fire Brigade	1,65,023 15 6		
4. Public Gardens—Maintenance and New Works.	91,682 13 4		
5. Public Works (Engineer's) Department	26,35,231 9 0		
6. New Works	2,47,490 6 11		
7. Public Health Department including Plague Expenses	24,33,810 6 7		
8. General Stores	35,098 6 3		
9. Education	4,85,285 5 11		
10. Hospitals	4,41,840 0 0		
11. Pensions, Gratuities and Compassionate Allowances	1,07,498 11 10		
12. Contribution to the City Improvement Trust	9,31,033 10 11		
13. Municipal Debt—			
Interest and Charges on Loans	26,59,172 13 11		
Reduction of Debt and payment of Sinking Fund	7,74,757 5 9		
		1,18,22,734 0 8	
14. Investments—			
Municipal Buildings Fire Insurance Fund		10,000 0 0	
15. Miscellaneous (b)		2,16,192 7 2	
			1,20,48,926 7 10
Excess of Income over Expenditure			* 8,27,574 9 1
Total Rs.			1,28,76,501 0 11

	Rs. a. p.
(a) Miscellaneous Fines	84,920 12 6
Do. Receipts	2,46,809 6 2
Do. Fees	1,18,187 10 8
Do. Savings	12,447 7 4
Profit on Municipal Workshops	3,165 13 3
Actual Profit on sale of Stores to Contractors, &c.	1,400 10 7
Sale-proceeds of Unserviceable Tools and Plant, &c.	4,810 15 1
Total Rs.	4,24,742 14 2

	Rs. a. p.
(b) Discretional Contingencies	2,749 13 4
Auditors' Allowance	10,000 0 0
Local Allowance	78,199 14 7
House Rent	2 9 9
Grain compensation	797 14 8
Cost of caskets and addresses presented to Lord Sydenham, the retiring Governor, and Lord Willingdon, the Governor Designate, and other expenses in connection therewith	1,577 8 0
Contribution towards the expenses of the King George V. Antituberculosis League.	10,000 0 0
Contribution towards the Fund for Children's Fête held in Bombay in commemoration of H. E. the Viceroy's recovery	5,000 0 0
Contribution towards the building to be erected at Apollo Bunder to commemorate the Visit of His Majesty the King Emperor of India	1,00,000 0 0
Writing off a portion of the amount of Rs. 1,771-1-3 misappropriated by the Head Clerk M. H. Thakur, C Ward	764 3 9
Cost of the Casket to be presented to His Excellency the Viceroy on his visit to Bombay and other expenses in connection therewith	1,660 7 6
Portion of the difference between the book value and the sale proceeds of certain surplus and obsolete stores, &c., of the Drainage Department written off	10,500 9 0
Total Rs.	2,16,192 7 2

* This includes Rs. 1,00,000 transferred for writing off the balance of Plague Charges advanced from Loan Funds.

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix

IN

STATEMENT showing the Net Receipts during the Financial year 1913-14 from all sources as con-

PARTICULARS.	Actuals for 1912-13.	Budget Estimate for 1913-14.	Revised Estimate for 1913-14.	Actuals for 1913-14.
1	2	3	4	5
	Rs. a. p.	Rs.	Rs. a. p.	Rs. a. p.
Taxation Proper.				
General Tax at 9½ per cent. (including Government and Port Trust Contributions) ...	47,18,833 1 10	46,10,010	46,21,475 0 0	46,41,022 4 5
Additional at ½ per cent. for Fire Brigade charges	2,33,028 15 3	2,42,700	2,43,235 0 0	2,44,283 15 10
	49,51,862 1 1	48,52,710	48,64,710 0 0	48,85,305 4 3
Wheel Tax and Tolls	5,23,522 0 0	4,95,000	5,05,000 0 0	5,61,499 11 11
Town Duties	17,42,130 15 4	16,10,000	16,28,000 0 0	17,30,637 0 0
Licenses—				
(*a*) Dangerous and Offensive Trades ...	1,09,678 0 0	1,00,000	1,12,000 0 0	1,14,166 2 0
(*b*) Streets and Buildings	3,610 0 0	5,000	7,500 0 0	8,050 0 0
(*c*) Land Conveyance, &c., Licenses ...	8,485 2 7	8,000	8,000 0 0	7,555 0 5
Receipts from Government for Liquor Licenses.	1,43,750 0 0	1,44,000	1,44,000 0 0	1,43,750 0 0
Do. do. Tobacco Duty ...	2,83,525 12 0	2,75,000	2,80,000 0 0	2,91,283 5 11
	77,66,568 15 0	74,89,710	75,49,210 0 0	77,42,246 6 6
Services rendered.				
Halalkhore Tax	13,50,832 8 3	13,54,000	13,79,000 0 0	13,85,127 15 6
Water Tax and other Miscellaneous Water Works Revenue	21,70,948 5 11	21,50,000	22,80,000 0 0	22,85,434 0 0
	35,21,780 14 2	35,04,000	36,59,000 0 0	36,70,561 15 6
Returns from Property and Miscellaneous.				
Market Receipts	5,80,269 13 2	5,71,000	5,84,000 0 0	5,98,289 13 2
Public Gardens	12,283 10 2	11,000	11,000 0 0	10,762 10 10
Tramway Rent	54,519 1 6	55,000	55,000 0 0	54,592 11 3
Miscellaneous Fines	31,120 14 11	20,000	28,000 0 0	34,920 12 6
Do. Receipts	3,08,647 12 8	2,00,000	2,40,000 0 0	2,46,809 6 2
Do. Fees	92,196 6 8	1,10,000	1,20,000 0 0	1,18,187 10 3
Do. Savings	8,517 1 4	7,000	8,000 0 0	12,447 7 4
Contribution from Municipal Servants towards Pension, &c., Fund	40,856 9 5	40,000	41,000 0 0	40,788 13 11
Profit on Municipal Workshops	2,735 14 9	1,000	1,000 0 0	2,185 13 3
Actual Profit on sale of Stores to Contractors,&c.	4,866 14 4	6,000	4,000 0 0	4,400 10 7
Sale Proceeds of Unserviceable Tools and Plant, &c.	7,434 13 6	4,000	4,000 0 0	4,810 15 1
Interest on Investments of Surplus Loan and other Balances	2,71,834 4 9	2,00,000	2,82,000 0 0	3,06,891 5 2
Interest at 3 per cent. on Corporation lands made over to the City Improvement Trust ...	37,431 3 10	.....	28,000 0 0	27,667 9 5
	14,53,244 9 0	12,25,000	14,06,000 0 0	14,63,692 10 11
Total Rs. ...	1,27,41,582 6 2	1,22,18,710	1,26,14,210 0 0	1,22,76,501 0 11
				Less
				Net Increase Rs.

W. E. WAITE,
Chief Accountant.

No. 2.

COME.

trasted with the Original Budget Estimate, the Revised Estimate and the Actuals for 1912-13.

As compared with the Original Estimate.		As compared with the Revised Estimate.		As compared with the Actuals for 1912-1913.	
More.	Less.	More.	Less.	More.	Less.
6	7	8	9	10	11
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
31,012 4 5	.....	19,547 4 5	.....	.....	77,810 13 5
1,582 15 10	.....	1,047 15 10	.....	11,254 0 7	.....
32,595 4 3	.....	20,595 4 3	.....	11,254 0 7	77,810 13 5
66,499 11 11	.....	56,499 11 11	.....	37,977 11 11	.....
1,20,637 0 0	.....	1,02,637 0 0	.....	.....	11,493 15 4
14,166 2 0	.....	2,166 2 0	.....	4,488 2 0	.....
2,950 0 0	.....	550 0 0	.....	4,440 0 0	.....
.....	444 15 7	.....	444 15 7	.....	930 2 2
.....	250 0 0	.....	250 0 0	.....	.....
16,383 3 11	.....	11,283 3 11	.....	7,757 7 11	.....
2,53,231 6 1	694 15 7	1,93,731 6 1	694 15 7	65,917 6 5	90,234 14 11
31,127 15 6	.....	6,127 15 6	.....	34,295 7 8	.....
1,35,434 0 0	.....	5,434 0 0	.....	1,14,485 10 1	.....
1,66,561 15 6	.....	11,561 15 6	.....	1,48,781 1 4	.....
27,239 13 2	.....	14,239 13 2	.....	17,970 0 0	.....
.....	230 5 2	.....	230 5 2	.....	1,513 15 4
.....	407 4 9	.....	407 4 9	73 9 9	.....
14,930 12 6	.....	6,930 12 6	.....	3,709 13 7	.....
46,809 6 2	.....	6,809 6 2	.....	.....	61,838 6 6
8,187 10 3	.....	.....	1,813 5 9	24,991 3 7	.....
5,447 7 4	.....	4,447 7 4	.....	3,900 6 0	.....
788 13 11	.....	.....	211 2 1	.....	67 11 6
2,165 13 3	.....	2,165 13 3	.....	439 14 6	.....
.....	1,599 5 5	400 10 7	.....	33 12 3	.....
810 15 1	.....	810 15 1	.....	.....	2,623 14 5
1,06,891 5 2	.....	24,891 5 2	.....	35,057 0 5	.....
27,667 9 5	.....	.....	332 6 7	.....	9,763 10 5
2,40,929 10 3	2,236 15 4	60,686 3 3	2,993 8 4	86,255 12 1	75,897 10 2
6,60,722 15 10	2,931 14 11	2,65,979 8 10	3,688 7 11	3,00,954 3 10	1,66,042 9 1
2,931 14 11		3,688 7 11		1,66,042 9 1	
6,57,791 0 11		2,62,291 0 11		1,34,911 10 9	

P. R. CADELL,
Municipal Commissioner.

Appendix

STATEMENT showing the quantity and value of several articles upon which Town Duty was

DUTY COLLECTED BY	GRAIN AND PULSE AT 6 ANNAS PER CANDY.			FLOUR OF ALL SORTS AT 75 PER CENT. OF THE RATE AT THE TIME BEING LEVIED ON THE GRAIN FROM WHICH FLOUR IS PREPARED.			WINES AND SPIRITS AT 4 ANNAS PER GALLON.			BEER AT 6 PIES PER GALLON.		
	Candies.	Furras.	Amount of Duty.	Candies.	Furras.	Amount of Duty.	Gallons.	Pints.	Amount of Duty.	Gallons.	Pints.	Amount of Duty.
BOMBAY PORT TRUST.			Rs. a. p.			Rs. a. p.			Rs. a. p.			Rs. a. p.
April 1913	1,51,960	4	56,985 3 0	.....	..	.....	89,867	2	22,466 13 1	54,321	..	1,697 3 6
May .. .. .. ,,	1,01,880	5	38,205 3 9	.....	..	.....	78,619	3	19,654 13 3	66,656	..	2,048 8 6
June .. .. .. ,,	30,589	2	11,474 11 6	.....	..	.....	79,692	2	19,923 1 0	96,954	..	3,029 12 6
July .. .. .. ,,	44,729	3	16,773 6 4	.....	..	.....	85,139	6	21,284 15 2	1,31,197	..	4,099 14 6
August .. .. .. ,,	53,618	5	20,105 1 9	.....	..	.....	71,062	5	17,765 10 9	99,224	4	3,100 12 3
September .. .. .. ,,	20,089	5	7,537 6 3	.....	..	.....	91,494	7	22,873 11 6	1,12,388	4	3,512 2 3
October .. .. .. ,,	78,477	5	29,429 1 6	.....	..	.....	80,872	6	20,218 2 10	60,783	..	1,899 7 6
November .. .. .. ,,	63,707	1	23,890 2 9	.....	..	.....	81,318	2	22,829 8 10	1,05,016	1	3,281 12 1
December .. .. .. ,,	1,03,383	4	38,018 13 3	.....	..	.....	54,078	3	13,519 9 4	1,44,726	..	4,522 12 0
January 1914	72,481	7	27,173 8 3	.....	..	.....	1,04,166	5	26 041 10 5	1,37,863	4	3,996 11 9
February .. .. ,,	465 73	4	17,240 1 1	.....	..	.....	83,770	2	20,942 8 11	97,088	..	3,034 0 0
March .. .. ,,	1,55,784	1	58,419 1 0	.....	..	.....	1,01,359	1	25,339 12 8	1,40,298	..	4,381 8 0
Total ..	9,20,670	7	3,45,251 9 5	.....	..	.....	10,51,441	4	2,62,860 5 9	12,35,826	5	38,603 15 4
G. I. P. RAILWAY.												
April 1913	1,77,021	7	66,383 3 0	.....	..	.....	40	2	10 1 0	1,262	...	43 3 0
May .. .. .. ,,	1,64,989	7	61,867 13 0	.....	..	.....	2	..	0 8 0	1,068	..	33 6 0
June .. .. .. ,,	1,34,139	8	50,302 4 0	.....	..	.....	19	..	4 12 0	1,042	..	32 9 0
July .. .. .. ,,	1,43,974	4	53,990 7 0	9	6	2 12 0	10	..	2 8 0	640	..	20 0 0
August .. .. .. ,,	1,39,396	3	52,273 10 0	.....	5	0 3 0	126	..	31 8 0	1,046	..	32 11 0
September .. .. .. ,,	90,081	7	33,781 15 0	7	6	2 3 0	66	..	16 8 0	846	..	26 7 0
October .. .. .. ,,	52,566	5	19,712 8 0	.....	..	.....	16	..	4 0 0	386	..	12 1 0
November .. .. .. ,,	49,403	..	18,526 2 0	.....	2	0 11 0	120	..	30 0 0	900	..	28 2 0
December .. .. .. ,,	43,009	3	16,128 8 0	2	3	0 11 0	114	..	28 8 0	1,018	..	31 18 0
January 1914	45,115	3	16,918 4 0	.....	..	.....	130	..	32 8 0	1,036	..	32 6 0
February .. .. ,,	41,471	7	15,551 15 0	.....	..	.....	170	..	42 8 0	608	..	19 0 0
March .. .. ,,	59,994	..	22,497 12 0	6	5	1 14 0	121	..	30 4 0	900	..	28 10 0
							90	..	22 8 0	532	..	16 10 0
Total ..	11,45,306	1	4,37,064 5 0	27	3	7 12 0	961	2	240 5 0	10,104	..	315 12 0
B. B. & C. I. RY.												
April 1913	49,110	1	18,416 5 0	449	5	126 7 0	.....	..	.....	.....	...	.....
May .. .. .. ,,	1,03,771	1	38,914 3 0	815	1	229 4 0	8	..	2 0 0	.....	..	.....
June .. .. .. ,,	73,306	4	27,452 1 0	88	7	25 0 0	2	..	1 8 0	.....	..	.....
July .. .. .. ,,	42,576	1	15,966 1 0	265	1	74 9 0	.....	..	.....	.....	..	.....
August .. .. .. ,,	27,353	4	10,257 9 0	88	2	24 13 0	29	..	7 4 0	.....	..	.....
September .. .. .. ,,	25,489	4	9,559 5 0	267	5	75 4 0	.....	..	.....	.....	..	.....
October .. .. .. ,,	32,239	..	12,089 10 0	295	4	83 2 0	.....	..	.....	.....	..	.....
November .. .. .. ,,	33,447	3	8,542 12 0	147	5	41 9 0	.....	..	.....	.....	..	.....
December .. .. .. ,,	31,021	1	11,632 15 0	398	7	112 3 0	42	..	10 8 0	.....	..	.....
January 1914	40,843	3	15,125 0 0	.....	..	.....	31	..	7 12 0	.....	..	.....
February .. .. .. ,,	29,530	..	11,073 12 0	.....	..	.....	.....	..	.....	20	..	0 10 0
March .. .. .. ,,	37,865	4	14,199 9 0	116	2	33 4 0	85	6	16 7 0	.....	..	.....
Total ..	5,15,553	2	1,93,339 2 0	2,935	..	825 7 0	181	6	45 7 0	20	..	0 10 0
GRAND TOTAL ..	26,01,729	2	9,75,648 0 5	7,962	3	893 3 0	10,52,584	4	2,63,146 1 9	12,45,450	5	38,920 5 4
Deduct— Refunds passed by the Revenue and Refund Audit Officer ..	14,79,226	..	5,52,085 8 0	1,37,793	5	38,754 3 0	1,53,325	4	38,331 6 0	1,38,626	..	38,703 15 0
Net Revenue ..	11,22,501	2	4,23,562 8 5	.....	..	.....	8,99,259	..	2,24,814 11 9	4,86,824	5	15,216 6 4
	..	..	....	1,34,831	3	37,921 5 0	....	..	.....	....	..	... ..

ABSTRACT.

Balance of collections on 31st March 1913 due by—			
Port Trust		Rs. a. p. 19,306 11 10	Rs. a. p.
G. I. P. Railway		38,441 7 3	
B. B. & C. I. Railway		2,411 3 0	
			61,159 6 1
Add—			
Collections in 1913-1914—			
Port Trust		31,64,085 4 0	
G. I. P. Railway		6,23,010 9 3	
B. B. & C. I. Railway		3,16,158 3 3	
			40,03,254 0 6
			40,64,413 6 7
Deduct—			
Refunds paid in 1913-1914			23,18,775 14 0
	Rs. a. p.		
Balance of collections on 31st March 1914 due by— Port Trust	5,745 2 11		
G. I. P. Railway	13,556 3 3		
B. B. & C. I. Railway ..	1,583 2 0		
		20,884 8 2	
			23,39,660 6 2
		Total .. Rs.	17,24,753 0 5
Add—			
Amounts credited in the books of this office in 1913-14			12,903 13 0
			17,37,656 13 5
Less—			
Amount credited in the books of this office in 1914-15			6,816 0 4
Amount of commission for 1913-14 not adjusted in our books of 1913-14 for want of a grant ..			203 13 1
			7,019 13 5
		Total .. Rs.	17,30,637 0 0

W. E. WAITE,
Chief Accountant.

No. 3.

levied during 1913-14, under Section 192 (1) of the City of Bombay Municipal Act of 1888.

Sugar at 8 Annas per Cwt.			Ghee at 10 Annas per Maund.		Timber at 2½ per cent. on Market Value.		Firewood at 2 Annas per Candy.			Total Monthly Collections.
Cwts.	qrs.	lbs.	Amount of Duty.	Maunds.	Seers.	Amount of Duty.	Value.	Amount of Duty.	Candies.	Maunds.	Amount of Duty.	
			Rs. a. p.			Rs. a. p.	Rs. a. p.	Rs. a. p.			Rs. a. p.	Rs. a. p.
342,500	0	24	1,71,250 1 9	7,812	38	4,930 9 6	7,91,545 8 8	19,788 10 1	78,140	21	9,767 9 6	2,04,576 5 11
107,620	1	25	53,819 11 0	7,063	..	4,414 6 0	13,75,850 8 8	31,896 4 2	47,337	14	5,919 11 0	1,56,958 11 5
39,590	2	24	19,795 5 9	4,190	11	2,581 8 2	8,33,637 8 0	19,340 15 0	673	..	84 2 0	72,723 7 0
51,393	2	3	25,696 12 3	9,934	8	6,208 14 0	8,93,263 8 8	22,331 9 5	69	..	8 10 0	94,104 8 9
411,358	3	18	2,06,679 7 3	3,291	27	2,057 4 9	3,81,631 0 8	14,538 4 5	234	14	29 5 0	2,23,275 14 2
388,186	0	14	1,94,078 1 0	7,816	17	4,885 4 3	7,68,326 4 0	19,208 2 6	2,318	14	289 13 0	2,18,334 8 9
515,299	3	7	2,57,649 14 6	18,221	19	11,388 6 9	7,48,712 4 8	18,717 12 11	73,736	14	9,209 9 0	3,46,273 7 0
428,514	1	24	2,14,257 2 9	20,749	28	12,967 14 6	7,20,653 8 8	18,016 5 5	25,649	18	3,318 11 3	2,48,991 10 7
499,469	1	21	2,29,234 11 6	31,277	30	19,548 9 6	7,24,203 8 8	18,107 5 5	32,029	14	4,078 5 0	3,27,830 2 0
678,960	1	14	3,39,480 3 0	30,820	11	19,268 4 9	6,29,622 2 0	15,740 9 3	54,860	14	6,857 9 0	4,20,557 3 3
354,624	0	26	1,77,312 1 9	35,693	15	22,308 5 0	6,40,886 7 4	16,022 2 7	56,395	14	7,049 7 0	2,63,091 11 4
453,171	2	7	2,26,585 12 6	24,968	20	15,605 5 0	7,90,975 10 0	19,774 6 3	63,360	..	7,920 0 0	3,85,025 13 5
4,925,878	8	10	21,12,939 6 9	201,847	22	1,26,154 11 6	91,,9,298 12 0	2,29,982 7 6	386,341	25	48,292 14 9	32,66,085 4 0
4,920	3	0	2,460 6 0	16,699	19	10,374 10 9	6,895 0 0	189 14 0	2,480	..	310 0 0	13,541 5 9
5,139	2	0	2,569 12 0	6,111	3	3,819 6 9	4,745 0 0	118 10 0	953	..	119 2 0	6,646 9 9
3,787	2	0	1,893 12 0	9,887	19	6,179 10 9	2,315 0 0	57 14 0	1,134	..	141 12 0	8,272 8 9
3,735	3	14	1,867 15 0	3,088	9	1,930 2 3	657 8 0	16 7 0	857	..	107 2 0	3,984 12 3
7,393	0	0	3,696 8 0	10,798	25	6,749 2 3	7,247 8 0	181 8 0	1,902	14	237 12 0	10,864 10 3
5,081	1	14	2,540 11 0	8,301	10	5,188 4 6	325 0 0	20 10 0	1,514	..	189 4 0	7,938 11 6
4,952	0	0	2,476 0 0	9,251	14	5,782 1 6	687 8 0	16 11 0	2,271	14	284 7 0	8,558 8 6
5,534	2	14	1,842 5 0	2,296	12	1,435 8 0	926 0 0	23 2 0	1,074	..	134 4 0	3,410 9 0
2,036	1	0	4,017 10 0	2,140	13	1,337 11 3	3,047 8 0	76 3 0	2,286	14	285 13 0	8,417 6 3
7,692	2	14	3,846 6 0	1,262	24	789 12 0	475 0 0	11 14 0	2,160	..	270 0 0	5,295 2 0
8,317	3	14	4,158 11 0	1,518	26	949 5 0	6,160 0 0	153 12 0	1,738	..	217 4 0	5,778 11 0
8,388	1	0	4,194 2 0	1,716	17	1,072 12 3	3,717 8 0	92 15 0	899	..	112 6 0	5,371 15 3
72,593	0	14	36,299 1 0	73,172	33	45,733 0 3	37,167 8 0	929 8 0	19,360	14	2,421 3 0	1,23,013 9 3
91	0	0	45 8 0	12,947	32	8,092 6 0	8,857 8 0	221 7 0	11,507	..	1,438 4 0	29,840 7 0
.....			....	9,718	36	6,074 5 0	6,070 0 0	151 12 0	6,940	14	867 9 0	44,298 1 0
223	0	0	111 8 0	11,946	16	7,472 12 0	4,917 8 0	122 15 0	9,978	..	1,247 4 0	34,453 0 0
3	2	14	1 12 0	13,781	8	8,582 3 0	4,725 0 0	118 2 0	13,320	..	1,665 0 0	26,607 12 0
16	1	0	8 2 0	11,981	38	7,488 11 6	1,050 0 0	26 4 0	15,987	14	1,998 15 0	29,732 16 6
0	3	0	0 6 0	37,195	2	10,799 6 6	950 0 0	23 12 0	14,081	..	1,760 2 0	37,312 3 6
116	0	14	58 1 0	19,945	16	12,465 14 0	225 0 0	5 10 0	6,250	14	781 5 0	25,333 10 0
192	2	14	96 5 0	11,162	24	6,976 10 0	2,605 0 0	65 2 0	7,377	14	922 3 0	16,744 9 0
532	1	0	266 2 0	12,952	4	8,095 1 0	2,355 0 0	58 14 0	12,276	14	1,534 9 0	21,710 4 0
2,084	2	14	1,042 5 0	13,572	30	8,482 7 6	2,812 8 0	68 5 0	23,723	14	2,965 5 0	27,591 7 6
280	2	14	185 5 0	14,710	20	9,194 1 0	1,177 8 0	29 7 0	19,678	..	2,459 12 0	29,922 15 0
297	3	14	148 15 0	10,373	11	6,483 4 9	4,685 0 0	117 2 0	11,695	14	1,461 15 0	22,460 8 9
2,888	3	0	1,944 6 0	159,987	37	99,980 2 3	40,230 0 0	1,005 12 0	152,104	14	19,014 5 0	5,10,252 3 3
4,802,385	2	24	21,51,192 13 9	434,988	12	2,71,867 14 0	92,76,696 4 0	2,31,917 6 6	557,905	25	69,738 3 9	40,93,254 0 6
3,190,008	2	0	15,95,004 4 0	25,679	28	16,049 13 0	8,97,225 0 0	22,430 14 0	.....	..	.....	27,33,360 4 0
1,112,357	0	24	5,56,178 9 9	409,308	24	2,55,818 1 0	83,79,461 4 0	2,09,486 8 6	557,905	25	69,738 3 9	17,54,215 1 6
.....			.....	....	..	.....	.....	.....	....	..	.....	32,921 5 9

Net Revenue .. Rs. 17,10,293 12 6

P. R. CADELL,
Municipal Commissioner.

Appendix No. 3.A.

STATEMENT showing the net Revenue derived on different dutiable articles during the last ten years commencing from 1904-05 to 1913-14.

Articles.	1904-05.	1905-06.	1906-07.	1907-08.	1908-09.	1909-10.	1910-11.	1911-12.	1912-13.	1913-14.
	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 6.	@ annas 6.	@ annas 6.	@ annas 6.
Grain	3,15,734 5 9	2,77,592 8 11	3,00,796 3 6	2,90,720 4 0	3,22,386 2 0	2,70,212 1 9	4,43,484 15 8	4,67,041 1 4	4,26,970 4 8	4,23,562 8 5
	@ annas 3.	@ annas 3.	@ annas 3.	@ annas 3.	@ annas 3.	@ annas 3.	@ annas 4½.	@ annas 4½.	@ annas 4½.	@ annas 4½.
Flour	—23,615 0 9	—24,870 8 6	—23,630 15 0	—20,701 15 6	—16,150 11 9	—15,237 7 0	—28,023 5 0	—32,597 0 3	—33,911 15 0	—37,921 5 0
	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.
Wines and Spirits ...	2,51,303 1 10	2,67,019 9 9	2,37,582 7 4	2,51,335 6 4	2,39,959 12 10	2,37,077 4 5	2,38,315 5 0	2,20,332 11 1	2,29,366 0 10	2,24,814 11 9
	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6.
Beer	16,884 9 8	19,499 11 2	11,645 10 10	15,143 9 0	8,353 4 3	12,858 2 7	11,293 15 0	11,518 1 8	10,217 10 5	15,216 6 4

	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 8.
Sugar...	5,35,570 8 0	1,81,326 5 6	3,69,549 2 0	3,73,378 14 6	3,61,917 15 6	4,38,451 8 3	4,46,237 7 8	1,19,829 15 1	6,20,853 11 2	5,56,178 9 9
	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.
Ghee	2,29,309 2 1	2,44,478 7 3	2,42,731 10 9	2,53,304 12 0	2,51,745 12 1	2,45,195 1 10	2,54,687 13 2	2,69,599 15 6	2,37,877 2 6	2,55,818 1 0
	@ 2½%	@ 2½%	@ 2½%	@ 2½%	@ 2½%	@ 2½%	@ 2½%	@ 2½%	@ 2½%	@ 2½%
Timber ...	1,45,269 8 4	1,64,802 3 1	1,77,011 10 4	1,52,349 0 4	1,64,969 12 11	1,74,592 10 10	1,53,324 14 5	1,95,427 10 10	1,70,192 13 2	2,09,486 8 6
	@ anna 1.	@ anna 1.	@ anna 1.	@ anna 1.	.....	.....	@ annas 2.	@ annas 2.	@ annas 2.	@ annas 2.
Firewood	36,824 11 9	36,407 12 9	36,168 12 8	13 6 0	.....	.....	70,248 5 1	72,056 1 10	70,327 10 8	69,738 3 9
Total Rs...	15,06,780 14 8	11,66,251 1 11	13,51,804 10 0	13,15,543 4 8	13,23,181 15 10	13,63,119 6 8	15,92,169 7 0	13,53,208 8 8	17,31,893 6 5	17,16,893 12 6

N.B.—This statement shows the net Revenue after deducting from gross collections refunds *passed* for payment by the Revenue and Refund Audit Officer, though such refunds may not actually have been fully paid.

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix

STATEMENT showing the actual Collections, Refunds admitted and Net

ARTICLES.	1909-10.			1910-11.		
	Gross Collections.	Refunds.	Net Revenue.	Gross Collections.	Refunds.	Net Revenue.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Grain	5,35,718 15 9	2,65,506 14 0	2,70,212 1 9	8,22,756 8 8	3,79,271 9 0	4,43,484 15 8
Flour	879 9 0	16,147 0 0	—15,267 7 0	954 8 0	26,977 13 0	—26,022 5 0
Wines and Spirits	2,61,242 15 5	24,165 11 0	2,37,077 4 5	2,61,553 13 0	23,238 8 0	2,38,315 5 0
Beer	37,519 13 7	24,661 11 0	12,858 2 7	37,186 12 0	25,892 13 0	11,293 15 0
Sugar	16,15,909 12 8	11,77,458 4 0	4,38,451 8 8	17,89,022 6 8	13,42,185 1 0	4,46,837 7 8
Ghee	2,71,708 11 10	26,513 10 0	2,45,195 1 10	2,81,971 5 2	27,283 8 0	2,54,687 13 2
Timber	2,06,550 12 10	31,958 2 0	1,74,592 10 10	1,85,851 11 5	32,526 13 0	1,53,324 14 5
Firewood	.....	.....	.....	70,248 5 1	.....	70,248 5 1
Total Rs. ...	29,29,530 10 8	15,66,411 4 0	13,63,119 6 8	34,49,546 8 0	18,57,376 1 0	15,92,169 7 0

W. E. WAITE,
Chief Accountant.

No. 3-B.

Revenue during the five years from 1909-10 to 1913-14.

1911-12.			1912-13.			1913-14.		
Gross Collections.	Refunds.	Net Revenue.	Gross Collections.	Refunds.	Net Revenue.	Gross Collections.	Refunds.	Net Revenue.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
9,38,014 10 4	5,20,973 9 0	4,67,041 1 4	10,55,189 2 8	6,28,218 14 0	4,26,970 4 8	9,75,648 0 5	5,52,085 8 0	4,23,562 8 5
1,618 4 9	33,615 5 0	—32,597 0 3	1,654 2 0	35,566 1 0	-33,911 15 0	833 3 0	38,754 8 0	—37,921 5 0
2,47,953 10 1	27,620 15 0	2,20,332 11 1	2,63,503 8 10	34,137 8 0	2,29,366 0 10	2,63,146 1 9	38,331 6 0	2,24,814 11 9
39,320 12 3	27,802 11 0	11,518 1 3	36,604 15 5	26,387 5 0	10,217 10 5	38,920 5 4	23,703 15 0	15,216 6 4
12,82,756 0 1	11,32,926 1 0	1,49,839 15 1	19,59,380 12 2	13,38,527 1 0	6,20,853 11 2	21,51,182 13 9	15,95,004 4 0	5,56,178 9 9
2,90,479 12 6	20,879 13 0	2,69,599 15 6	2,58,210 12 6	20,333 10 0	2,37,877 2 6	2,71,867 14 0	16,049 13 0	2,55,818 1 0
2,26,642 15 10	31,222 5 0	1,95,427 10 10	2,03,058 1 2	33,865 4 0	1,70,192 13 2	2,31,917 6 6	22,430 14 0	2,09,486 8 6
72,056 1 10	.....	72,056 1 10	70,327 10 8	.....	70,327 10 8	69,738 3 9	.....	69,738 3 9
31,48,249 3 8	17,93,046 11 0	13,53,208 8 8	38,47,929 1 6	21,16,086 11 0	17,31,893 6 5	40,08,254 0 6	23,86,360 4 0	17,16,893 12 6

P. R. CADELL,
Municipal Commissioner.

Appendix

Statement showing Town Duty Collections from each source month by month with

MONTH.	Grain.		Flour.		Wines and Spirits.		Beer.	
	1912-13.	1913-14.	1912-13.	1913-14.	1912-13.	1913-14.	1912-13.	1913-14.
BOMBAY PORT TRUST.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
April	15,276 11 9	56,985 3 0	....	....	29,013 15 8	22,464 13 1	6,735 1 6	1,697 8 6
May	15,459 9 9	38,205 3 9	....	....	23,320 15 0	19,654 15 8	2,328 10 9	2,048 9 6
June	9,297 15 3	11,474 11 6	....	....	14,353 4 1	19,977 1 9	1,430 13 0	3,029 13 0
July	6,502 4 3	16,373 8 4	....	....	16,778 15 2	21,394 15 2	2,988 14 6	4,099 14 6
August	2,798 13 6	20,105 1 9	....	....	16,551 0 4	17,763 10 9	1,038 4 3	5,100 1* 3
September	3,360 5 9	7,537 6 3	....	....	19,973 0 2	23,573 11 6	3,600 14 3	3,912 2 3
October	10,737 12 6	29,429 1 6	....	....	23,627 0 8	20,318 2 10	1,741 15 3	1,989 7 6
November	23,733 15 5	23,290 2 9	3 13 0	....	22,156 1 7	23,229 8 10	4,182 2 3	3,231 12 1
December	17,604 6 0	38,016 12 3	....	....	21,991 2 5	23,519 9 4	2,969 7 0	4,522 12 6
January	15,410 3 0	37,173 3 8	....	....	27,579 0 4	20,061 10 5	4,290 2 8	3,995 11 8
February	16,677 5 8	17,240 1 1	....	....	23,803 1 5	20,967 8 11	2,921 9 6	3,034 0 6
March	41,430 7 0	58,419 1 0	....	....	23,806 14 0	21,288 12 8	3,981 8 0	4,881 8 0
Total ..	1,76,378 13 5	3,45,251 9 5	3 13 0	....	2,63,943 6 10	2,62,990 5 9	36,199 6 5	38,603 15 4
G. I. P. RAILWAY.								
April	59,393 8 0	66,383 3 0	2 0 0	....	7 2 0	10 1 0	40 9 0	43 8 0
May	82,867 9 0	61,867 13 0	....	....	7 0 0	0 8 0	48 14 0	33 6 0
June	59,512 3 0	50,302 4 0	0 5 0	2 12 0	18 8 0	4 12 0	38 8 0	12 9 0
July	55,221 3 9	53,990 7 0	0 1 0	0 3 0	18 0 0	2 8 0	13 2 0	20 0 0
August	55,574 0 0	52,373 10 0	0 5 0	2 3 0	9 4 0	51 8 0	35 10 0	32 11 0
September	50,278 12 0	33,761 15 0	57 6 0	....	34 0 0	16 8 0	61 0 0	26 7 0
October	41,430 13 6	19,712 8 0	1 7 0	0 1 0	5 8 0	18 4 0	13 4 0	12 1 0
November	46,632 6 0	18,526 2 0	....	....	48 12 0	28 8 0	28 11 0	21 13 0
December	50,943 13 0	16,128 8 0	....	0 11 0	65 0 0	32 8 0	28 11 0	22 6 0
January	48,427 0 0	18,418 4 0	1 6 0	....	14 12 0	42 8 0	15 0 0	19 0 0
February	38,548 15 0	23,201 12 0	....	....	3 0 0	30 4 0	18 0 0	15 10 0
March	46,040 11 0	22,497 12 0	0 5 0	1 14 0	0 12 0	22 8 0	25 10 0	16 10 0
Total ..	6,84,280 14 3	4,87,904 5 0	63 3 0	7 12 0	237 10 0	240 5 0	402 18 0	315 12 0
B. B. & C. I. RAILWAY.								
April	16,163 9 0	18,416 5 0	41 4 0	126 7 0	6 8 0	....	....	....
May	43,961 7 0	33,914 3 0	66 2 0	229 4 0	....	2 0 0	....	....
June	32,534 2 0	27,462 1 0	149 2 0	25 0 0	....	1 8 0	....	....
July	20,836 0 0	15,966 1 0	75 7 0	74 9 0	....	....	....	....
August	12,561 0 6	10,287 9 0	149 1 0	24 13 0	2 8 0	7 4 0	....	....
September	17,865 11 0	9,662 5 0	181 14 0	75 4 0	....	....	....	....
October	18,960 10 0	12,089 10 0	249 5 0	82 2 0	....	....	....	....
November	24,295 8 0	8,842 12 0	68 3 0	41 9 0	2 8 0	....	....	....
December	21,022 3 0	11,032 15 0	284 2 0	112 3 0	3 0 0	10 8 0	2 10 0	....
January	20,894 5 0	15,122 0 0	208 14 0	....	....	7 12 0	....	....
February	8,360 7 0	11,073 12 0	40 6 0	....	3 0 0	....	....	....
March	9,184 9 0	14,199 9 0	75 6 0	33 4 0	....	16 7 0	....	....
Total ..	2,44,829 7 0	1,93,332 2 0	1,587 2 0	825 7 0	22 8 0	45 7 0	2 10 0	0 10 0
GRAND TOTAL ..	10,55,189 2 8	9,79,848 0 5	1,654 2 0	833 3 0	2,63,903 8 10	2,63,146 1 9	36,604 15 5	38,920 5 4
Less— REFUNDS PASSED BY THE R. & R. A. OFFICER	6,28,216 14 0	5,52,935 8 0	35,566 1 0	38,754 8 0	24,137 8 0	38,331 6 0	26,887 5 0	23,703 15 0
NET REVENUE ..	4,26,970 4 8	4,23,862 8 5	—33,911 15 0	—37,921 5 0	2,29,966 0 10	2,24,814 11 9	10,217 10 5	15,216 6 4

* Revenue from Town Duties—

		Rs. a. p.
For 1912-1913		17,31,898 6 9
For 1913-1914		17,16,898 12 6
Decrease ..	Rs.	14,999 9 11

		Rs. a. p.		
Add—Refunds admitted by the R. & R. A. Officer for 1912-13		21,16,033 13 0		
Refunds passed by the Account Office for 1912-13		20,86,376 5 0		
Difference ..	Rs.	29,659 6 0		
Difference between the collection payable on 1st April 1912 and 1st April 1913—				
		42,093 15 9		
		61,159 6 1		
		19,065 6 4		
Collection pertaining 1912-13 booked in 1913-14		356 6 9	19,421 13 1	Rs. a. p.
Less—Refunds admitted by the R. & R. A. Officer for 1913-14	Rs.	22,86,960 4 0	10,237 8 11	
Refunds passed by the Account Office in 1913-14	,,	23,18,775 14 0		25,237 2 10
Difference ..	Rs.	32,415 10 0		
Difference between collection payable on 1st April 1913 and 1st April 1914—				
	Rs.	61,159 6 1		
	,,	20,884 8 2		
			40,274 13 11	
			7,859 8 11	
			§ 5,883 15 7	
				13,743 4 6

Add—Difference between the amounts credited in 1912-14 and the amounts to be credited in 1914-15

Rs.	12,903 13 0
,,	7,019 13 5
§ Rs.	5,883 15 7

Decrease shown in Appendix No. 2 .. Rs. 11,496 13 4

W. E. WAITE,
Chief Accountant.

No. 3-C.

the refunds admitted for the year 1913-14 as contrasted with those for the year 1912-13.

Sugar.		Ghee.		Timber.		Firewood.		Total.	
1912-13.	1913-14.	1912-13.	1913-14.	1912-13.	1913-14.	1912-13.	1913-14.	1912-13.	1913-14.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,96,287 15 8	1,71,240 1 9	12,697 6 6	4,920 9 6	18,881 12 11	19,788 10 2	9,541 2 8	9,767 9 6	2,86,373 2 8	2,86,376 7 6
1,52,783 3 9	53,819 11 9	14,214 3 9	4,414 6 0	15,648 15 0	31,896 4 2	5,232 14 0	5,919 11 0	2,28,397 1 3	1,96,968 11 5
14,918 10 6	19,796 5 9	7,053 10 9	2,931 6 9	15,793 10 8	15,540 15 0	42 7 6	84 2 0	64,878 7 6	72,729 7 0
57,630 2 0	25,696 12 3	10,212 3 3	6,208 14 0	10,332 1 8	27,331 9 5	14 10 0	8 10 0	1,64,139 2 10	99,494 3 8
90,338 13 3	2,05,479 7 3	9,916 5 0	2,057 4 9	17,826 8 10	14,538 4 5	6 3 6	29 5 0	1,58,488 0 6	2,62,773 14 2
1,52,203 14 0	1,94,978 1 0	13,898 12 6	4,845 4 3	9,452 9 11	19,208 2 6	519 2 0	289 13 0	2,02,389 10 1	2,82,265 8 9
1,12,501 1 6	2,51,849 14 6	9,195 6 3	11,388 6 0	21,304 0 2	18,717 12 11	3,864 2 6	2,969 9 0	1,82,761 7 4	2,42,253 7 9
2,20,172 7 0	2,11,757 3 9	3,767 1 0	13,967 14 6	17,971 8 4	15,014 5 5	2,791 9 6	3,318 11 3	2,94,747 11 1	2,96,058 10 3
3,48,254 0 9	2,53,834 11 6	5,710 5 9	19,548 9 6	19,393 13 2	13,107 5 5	4,550 10 6	4,078 5 0	4,39,613 13 7	3,87,580 2 0
2,25,727 11 0	3,39,480 3 0	3,473 7 9	19,263 4 9	14,533 5 6	15,740 9 3	7,653 3 9	6,857 9 0	2,99,660 7 10	4,05,577 8 9
2,20,068 14 0	1,77,312 1 9	4,575 6 3	22,308 5 9	18,883 1 0	16,022 2 7	7,611 15 3	7,049 7 0	2,93,341 4 8	2,03,363 11 1
1,15,776 6 6	2,26,585 12 6	6,453 7 9	15,905 5 0	20,323 12 6	19,774 6 3	3,679 0 6	7,920 0 0	2,18,621 0 2	3,58,025 12 9
19,07,065 8 2	22,12,939 6 9	1,01,076 1 0	1,28,194 11 6	2,00,314 3 2	2,29,982 7 6	50,399 1 8	48,492 11 9	27,34,580 5 8	31,84,065 4 0
2,825 4 6	2,460 6 0	3,022 3 6	10,374 10 9	51 4 0	150 14 0	103 8 0	310 0 0	65,495 8 6	79,742 5 9
2,440 4 6	2,569 12 0	3,124 11 3	3,819 6 9	14 5 0	118 10 0	126 7 0	119 2 0	39,689 2 3	68,528 0 9
2,978 12 0	1,823 12 0	2,980 3 6	6,179 10 9	36 9 0	57 14 0	161 0 0	141 12 0	65,672 1 6	58,615 5 9
2,515 7 0	1,867 15 0	4,052 10 9	1,920 2 3	64 0 0	15 7 0	17 13 0	107 2 0	64,942 5 6	57,934 12 3
3,518 14 0	2,696 8 0	6,054 10 9	6,749 2 3	13 2 0	181 3 0	505 3 0	237 13 0	63,730 0 9	63,204-10 3
4,471 13 0	2,940 12 0	2,982 11 3	5,813 4 6	131 10 0	90 10 0	532 7 0	193 4 0	58,795 13 3	41,588-14 3
5,157 15 0	2,476 0 0	10,434 12 6	5,782 1 6	466 7 0	16 11 0	214 10 0	296 7 0	57,726 13 0	28,134 1 6
2,304 2 0	1,942 5 0	14,252 9 0	1,435 3 0	482 4 0	23 2 0	184 10 0	134 4 0	65,830 6 0	22,021 5 0
5,065 1 0	4,517 10 0	14,040 15 3	1,237 11 3	198 12 0	76 3 0	135 6 0	285 13 0	70,477 11 3	22,611 0 3
2,284 13 0	3,848 5 0	9,487 10 6	769 13 0	814 0 0	11 14 0	252 4 0	270 0 0	62,342 12 6	29,397 14 6
5,849 5 0	4,198 11 0	13,126 1 3	849 3 0	153 7 0	153 12 0	312 2 0	217 4 0	68,920 14 3	28,715 12 0
5,472 10 0	4,429 8 0	9,445 6 0	1,072 12 3	380 5 0	92 15 0	196 9 0	112 6 0	65,968 4 0	28,245 15 3
47,701 9 0	36,299 1 0	90,990 9 6	48,783 0 3	2,305 2 0	929 3 0	2,741 15 0	2,421 3 0	7,78,723 12 9	5,22,910 9 3
162 15 0	45 3 0	4,973 10 0	8,092 6 0	8 2 0	221 7 0	469 1 0	1,438 6 0	71,875 1 0	70,940 7 0
0 8 0	....	4,101 10 3	5,074 3 6	....	151 12 0	1,091 11 0	807 9 0	49,241 8 3	48,239 1 0
0 14 0	111 8 0	5,230 1 0	7,472 12 0	5 0 0	122 15 0	925 5 0	1,247 4 0	38,383 14 0	36,437 0 9
1 0 0	1 13 0	7,421 2 0	3,582 3 0	11 14 0	118 2 0	875 8 0	1,665 7 0	77,120 15 0	35,407 13 6
122 3 0	8 2 0	7,895 13 0	7,486 11 6	10 12 0	26 4 0	2,294 15 0	1,920 15 0	73,057 4 6	19,732 10 6
....	0 6 0	5,686 2 3	10,709 6 6	....	23 12 0	1,886 4 0	1,760 2 0	25,621 15 3	22,731 3 6
2 14 0	58 1 0	2,983 14 0	12,465 14 0	....	5 10 0	814 11 0	781 5 0	22,611 8 0	25,482 10 0
238 4 0	96 5 0	1,409 4 0	9,976 10 0	20 10 0	65 2 0	753 3 0	922 3 0	21,485 8 0	19,144 9 0
1 0 0	260 2 0	5,218 15 9	8,695 1 0	52 12 0	98 14 0	1,614 4 0	1,824 9 0	28,103 2 9	21,570 4 6
149 6 0	1,842 5 0	6,294 3 0	8,545 7 6	93 10 0	65 5 0	2,729 5 0	2,905 5 0	30,471 15 0	27,551 2 6
1,901 4 0	365 5 0	8,616 11 3	9,194 1 0	15 10 0	29 7 0	2,101 4 0	2,459 13 0	19,238 10 3	22,922 15 0
2,031 3 0	149 15 0	6,284 5 6	6,483 4 9	219 6 0	127 2 0	1,708 15 0	1,461 15 0	19,953 12 6	23,460 8 9
4,613 11 0	1,944 6 0	66,144 2 0	89,980 2 3	436 12 0	1,005 12 0	17,276 10 0	19,024 5 0	3,34,414 14 0	3,16,136 3 3
19,59,980 12 2	21,51,182 13 9	2,58,210 12 6	2,77,867 14 0	2,02,056 1 2	2,31,917 6 6	70,327 10 8	69,738 3 9	33,47,929 1 5	46,03,764 8 6
13,33,517 1 0	15,95,004 4 0	20,238 10 0	10,049 13 0	32,365 4 0	22,430 14 0	....	....	21,16,035 11 0	27,85,360 4 0
6,20,833 11 2	5,56,178 9 9	2,37,877 2 6	2,55,818 1 0	1,70,192 13 2	2,09,486 8 6	70,327 10 8	69,738 3 9	*17,31,893 5 5	18,18,404 12 6

P. R. CADELL,
Municipal Commissioner.

Appendix No. 4.

CONTRASTED STATEMENT showing the Original Budget Grants for 1913-14, Renewed Grants for 1912-13 and previous years, Additional Grants, Transfers, Modifications, as per Revised Estimate for 1913-14, and the Grants as finally sanctioned.

PARTICULARS.	Original Grants sanctioned by the Corporation under Section 129 of the Municipal Act.	Additional Grants sanctioned by the Corporation under Section 131 (1).	Additional Grants sanctioned by the Corporation in respect of unexpended balances of Grants for 1911-12 and previous years required for expenditure in 1913-14 and of transfers sanctioned during the year and not included in the Budget Grants for 1912-13, not wholly or partially utilised in that year.	Lapsed Grants for 1912-13 renewed by the Standing Committee under Section 132.	Add—Transfers as per Section 133.	Deduct—Transfers as per Section 133.	Total.	Less—Anticipated Savings as per Revised Estimate of Expenditure for 1913-14.	Final Sanctioned Grants.
1	2	3	4	5	6	7	8	9	10
GENERAL SUPERINTENDENCE—	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Corporation and Standing Committee Establishment	74,579 0 0	....	....	....	6,871 0 0	749 3 0	80,700 13 0	....	80,700 13 0
Municipal Commissioner's Personal Office Establishment ..	66,644 0 0	4,500 0 0	....	....	1,503 8 0	3 8 0	72,644 0 0	....	72,644 0 0
General Office Establishment ..	71,283 0 0	3,271 6 10	12,000 0 0	19,189 0 0	5,500 0 0	2,750 0 0	1,08,593 6 10	50 0 0	1,08,543 6 10
Accounts and Expenditure Audit Establishment	86,626 0 0	....	....	4,447 3 10	300 0 0	300 0 0	91,073 3 10	....	91,073 3 10
Total Rs.	2,99,137 0 0	7,771 6 10	12,000 0 0	23,636 3 10	14,274 8 0	3,802 11 0	3,53,016 7 8	50 0 0	3,52,966 7 8
ASSESSMENT & COLLECTION DEPT.—									
Property and Wheel Tax Estt. ..	2,16,711 0 0	1,695 0 0	600 0 0	890 0 0	2,050 0 0	1,550 0 0	2,20,096 0 0	....	2,20,096 0 0
Town Duty Collection	1,00,001 0 0	17,512 7 6	....	948 12 9	18,000 0 0	....	1,36,561 4 3	....	1,36,561 4 3
Tolls Collection	660 0 0	....	....	....	....	....	660 0 0	....	660 0 0
Licensing Establishment	23,932 0 0	....	....	33 6 2	413 0 0	413 0 0	23,985 6 2	....	23,985 6 2
Revenue and Refund Audit Office Establishment	35,728 0 0	....	....	165 10 3	....	18,000 0 0	77,893 10 3	....	77,893 10 3
Total Rs.	4,37,051 0 0	19,207 7 6	600 0 0	1,737 12 2	20,463 0 0	19,963 0 0	4,59,196 4 8	....	4,59,196 4 8
FIRE BRIGADE—	1,79,789 4 3	206 7 0	....	6,577 8 0	525 0 0	7,141 0 0	1,79,957 3 3	3,550 0 0	1,76,407 3 3
Total Rs.	1,79,789 4 3	206 7 0	....	6,577 8 0	525 0 0	7,141 0 0	1,79,957 3 3	3,550 0 0	1,76,407 3 3
MAINTENANCE OF PUBLIC GARDENS—									
Victoria Gardens ..	71,590 0 0	8 3 3	11,714 12 3	8,838 2 1	3,750 0 0	4,109 0 0	91,702 1 7	1,700 0 0	90,002 1 7
Elphinstone Circle Garden ..	1,270 0 0	....	209 12 10	211 6 7	....	....	1,691 3 5	45 0 0	1,646 3 5
Falkland Road do. ..	332 0 0	....	21 6 4	....	....	....	353 6 4	100 0 0	253 6 4
Northbrook do. ..	1,272 0 0	....	69 2 6	384 4 5	....	....	1,725 6 11	112 0 0	1,613 6 11
Sir C. Jehangir Garden at Mahim ..	314 0 0	....	....	....	....	....	314 0 0	53 0 0	261 0 0
Bazaar Gate Street Garden ..	182 0 0	....	....	55 8 8	....	....	237 8 8	10 0 0	227 8 8
Dick's Tank do. ..	182 0 0	....	7 11 10	8 15 8	....	....	198 11 6	10 0 0	188 11 6
Malabar Hill do. ..	1,202 0 0	....	35 8 4	49 4 8	....	....	1,285 13 1	20 0 0	1,265 13 1
Esplanade Bandstand Green ..	6,024 0 0	....	....	49 9 6	305 0 0	305 0 0	6,143 9 6	140 0 0	6,003 9 6
Chowpatty Bandstand	2,000 0 0	....	....	....	....	....	2,000 0 0	....	2,000 0 0
Flora and Wellington Fountains and the Queen's Statue	490 0 0	....	....	946 8 6	359 0 0	....	1,795 8 6	110 0 0	1,685 8 6
New Works Gardens	5,777 0 0	....	4,033 10 2	7,412 0 9	....	....	18,122 10 11	....	18,122 10 11
Total Rs.	90,523 0 0	8 3 3	16,092 0 3	17,955 12 6	4,414 0 0	4,414 0 0	1,25,581 0 0	2,300 0 0	1,23,281 0 0
PUBLIC WORKS (ENGINEER'S DEPARTMENT.)—									
I—*General Supervision and Miscellaneous Duties*	91,100 0 0	....	80 10 0	22 8 0	5,532 0 0	350 0 0	96,385 2 0	1,500 0 0	94,885 2 0
II—*Mechanical Branch*—									
A Workshops	....	....	....	....	....	....	....	....	....
B Maintenance of C. Station at Colaba ..	32,985 0 0	43 0 0	....	....	2,000 0 0	....	35,028 0 0	....	35,028 0 0
C. Do. of Love Grove P. Station ..	1,56,027 0 0	34,224 0 0	213 0 0	50 0 0	....	6,010 0 0	1,83,504 0 0	....	1,83,504 0 0
D. Do. of Air C. Station at Love Grove	80,960 0 0	12,392 0 0	....	90 0 0	1,750 0 0	1,750 0 0	93,442 0 0	....	93,442 0 0
E. Do. of Storm-water Sluices ..	2,414 0 0	....	....	152 0 0	....	....	2,566 0 0	....	2,566 0 0
III—*Sanitary*—									
Disposal of Town Sweepings ..	1,28,242 0 0	....	....	1,799 2 3	305 7 6	10,036 7 6	1,17,810 2 3	29,450 0 0	88,360 2 3
IV—*Drainage*—									
A. Miscellaneous Drainage ..	2,55,615 0 0	....	500 0 0	7,363 0 0	7,742 0 0	2,438 0 0	2,68,782 0 0	1,750 0 0	2,67,032 0 0
B. Maintenance of Sluices ..	3,394 0 0	....	....	....	....	....	3,394 0 0	250 0 0	3,144 0 0
V—*Water Works*	3,95,964 0 0	11,029 3 3	17,131 13 7	74,382 1 9	8,681 0 0	19,332 0 0	4,87,956 2 7	11,750 0 0	4,76,206 2 7
VI—*Streets and Buildings*—									
A. Inspection and Supervision ..	1,94,669 0 0	....	....	700 0 0	1,000 0 0	....	1,96,369 0 0	800 0 0	1,95,569 0 0
B. Public Lighting	4,81,970 0 0	....	200 0 0	32,850 0 0	....	....	5,15,020 0 0	32,900 0 0	4,82,120 0 0
C. Road Watering	1,01,580 0 0	53,460 12 10	2,194 10 0	1,370 0 0	200 0 0	1,370 0 0	1,56,675 6 10	....	1,56,675 6 10
C. 1 Oiling and Tarring Roads ..	80,000 0 0	....	14,986 4 3	....	1,370 0 0	83,596 4 3	5,000 0 0	78,596 4 3
D. Roads and Footpaths, &c. ..	6,61,859 0 0	42,270 0 0	23,306 8 11	7,276 10 7	....	846 0 0	7,33,968 3 6	....	7,33,968 3 6
E. Street Improvements ..	1,20,000 0 0	26,813 0 0	22,482 13 4	7,747 11 9	....	....	1,69,043 9 1	....	1,69,043 9 1
F. Miscellaneous	1,850 0 0	....	..	400 0 0	....	....	2,250 0 0	....	2,250 0 0
VII—*Special Provision for Cleaning, Lighting, &c., Port Trust Wharves & Roads*	40,183 0 0	....	....	....	....	....	40,183 0 0	....	40,183 0 0
Total Rs. ..	27,97,152 0 0	1,26,371 3 3	1,17,275 10 8	1,42,496 0 7	28,381 7 6	42,232 7 6	31,69,753 14 6	82,500 0 0	30,87,253 14 6
Carried forward Rs. ..	38,03,654 4 3	1,52,864 11 10	1,46,967 10 11	1,92,403 6 1	68,057 15 6	77,553 2 6	42,86,404 14 1	88,400 0 0	41,98,004 14 1

Appendix No. 4—*continued.*

PARTICULARS.	Original Grants sanctioned by the Corporation under Section 129 of the Municipal Act.	Additional Grants sanctioned by the Corporation under Section 131 (1).	Additional Grants sanctioned by the Corporation in respect of unexpended balances of Grants for 1912-13 and of transfers sanctioned in 1912-13 but not utilized in that year, and of Budget Grants for 1913-14 wholly or partially utilized in that year.	Lapsed Grants for 1912-13 renewed by the Standing Committee under Section 132.	*Add*—Transfers as per Section 129.	*Deduct*—Transfers as per Section 132.	Total.	*Less*—Anticipated Savings as per Revised Estimates of Expenditure for 1913-14.	Final Sanctioned Grants.
1	2	3	4	5	6	7	8	9	10
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ..	38,03,632 4 3	1,52,864 11 10	1,46,967 10 11	1,92,403 6 1	68,057 15 6	77,513 2 6	42,864,04 14 1	98,460 0 0	41,98,604 14 1
PUBLIC HEALTH DEPARTMENT—									
General Supervision	1,34,660 0 0	....	....	752 14 3	2,510 0 0	140 0 0	1,37,782 14 3	....	1,37,782 14 3
Conservancy Branch	17,07,484 0 0	9,490 2 10	64,998 7 3	26,078 4 9	33,313 12 0	42,760 12 0	18,60,659 4 10	21,100 0 0	17,39,559 4 10
Markets and Slaughter Houses ..	1,86,164 0 0	1,687 1 4	9,468 4 2	10,302 3 10	16,145 0 0	2,464 9 5	2,21,801 15 11	....	2,21,801 15 11
Registration of Births and Deaths.	85,938 0 0	....	....	50 0 0	3,120 0 0	....	87,108 0 0	....	87,108 0 0
Cemeteries	21,338 0 0	182 11 11	68 0 0	1,211 10 2	....	1,490 0 0	18,382 8 1	3,000 0 0	15,382 8 1
Laboratory	16,702 0 0	29 5 1	1,500 0 0	1,846 4 3	400 0 0	....	20,477 9 4	....	20,477 9 4
Mahalaxmi Dhobiwada	16,645 0 0	....	....	357 0 0	40 0 0	....	17,042 0 0	....	17,042 0 0
Infectious Diseases	62,637 8 0	474 12 7	1,876 1 4	603 0 0	500 0 0	500 0 0	65,517 5 11	700 0 0	64,817 5 11
Milch-Cattle Stables and Rooms ..	7,337 0 0	....	....	280 7 2	....	....	7,607 7 2	61 0 0	7,547 7 2
Dispensaries	15,189 0 0	....	333 3 0	180 0 0	340 0 0	....	16,042 3 0	....	16,042 3 0
Rustomji Jamsetji Dharamsala ..	735 0 0	....	....	200 0 0	....	....	935 0 0	....	935 0 0
Vaccination	33,778 8 0	....	....	279 6 3	1,357 0 0	357 0 0	34,858 14 3	700 0 0	34,148 14 3
Malaria	81,700 0 0	103 8 4	2,355 13 2	....	7,900 0 0	20,000 0 0	71,159 5 6	6,000 0 0	65,159 5 6
Plague	1,60,000 0 0	....	....	4,755 9 6	400 0 0	400 0 0	1,64,755 9 6	4,065 0 0	1,60,690 9 6
Total Rs.	25,20,222 0 0	11,949 0 1	80,800 12 11	47,238 12 2	66,125 12 0	71,149 5 5	26,37,069 15 9	35,625 0 0	26,01,444 15 9
NEW WORKS	2,52,143 0 0	1,26,383 12 2	2,09,877 1 8	28,030 0 8	27,142 9 5	12,998 0 0	6,30,548 7 11	32,125 0 0	5,98,423 7 11
Total Rs.	2,52,143 0 0	1,26,383 12 2	2,09,877 1 8	28,030 0 8	27,142 9 5	12,998 0 0	6,30,548 7 11	32,125 0 0	5,98,423 7 11
GENERAL STORES ESTABLISHMENT	35,780 0 0	....	3,944 13 11	309 2 11	200 0 0	200 0 0	40,034 0 10	950 0 0	39,084 0 10
Total Rs.	35,780 0 0	....	3,944 13 11	309 2 11	200 0 0	200 0 0	40,034 0 10	950 0 0	39,084 0 10
EDUCATION—									
Primary Education	4,02,817 0 0	....	....	....	....	....	4,02,817 0 0	....	4,02,817 0 0
School for Deaf and Dumb Mutes..	3,000 0 0	....	....	....	....	....	3,000 0 0	....	3,000 0 0
Veterinary College	2,500 0 0	....	....	....	....	....	2,500 0 0	....	2,500 0 0
Victoria and Albert Museum ..	18,481 0 0	15 6 3	1,249 7 5	830 3 10	....	....	20,546 1 6	....	20,546 1 6
Victoria Jubilee Technical Institute	20,000 0 0	....	....	....	....	....	20,000 0 0	....	20,000 0 0
Schools Committee's Establishment	13,248 0 0	164 10 5	....	....	314 0 0	250 0 0	13,976 10 5	....	13,976 10 5
Victoria Memorial School for the Blind.	2,500 0 0	....	....	....	....	....	2,500 0 0	....	2,500 0 0
Prince of Wales Museum	25,000 0 0	....	....	....	....	....	25,000 0 0	....	25,000 0 0
Total Rs. ..	4,87,626 0 0	179 0 8	1,249 7 5	830 3 10	314 0 0	250 0 0	4,90,329 11 11	....	4,90,329 11 11
HOSPITALS—									
Acworth Leper Asylum at Matunga	36,090 0 0	....	....	....	....	2,275 0 0	33,725 0 0	10,000 0 0	23,725 0 0
Medical Institutions	4,14,900 0 0	....	....	....	....	....	4,14,900 0 0	....	4,14,900 0 0
Adams Wylie Hospital	4,000 0 0	....	....	....	....	....	4,000 0 0	....	4,000 0 0
Bombay Sanitary Association ..	1,500 0 0	....	....	....	....	....	1,500 0 0	....	1,500 0 0
Total Rs. ..	4,56,000 0 0	....	....	....	....	2,275 0 0	4,53,725 0 0	10,000 0 0	4,43,725 0 0
MISCELLANEOUS—									
Pensions, Gratuities and Compassionate Allowances	1,00,000 0 0	14,620 0 0	8,649 7 5	....	....	....	1,23,269 7 5	....	1,23,269 7 5
Discretional Contingencies ..	7,000 0 0	....	....	1,100 0 0	....	....	8,100 0 0	....	8,100 0 0
Auditor's Allowances	10,000 0 0	....	....	....	....	....	10,000 0 0	....	10,000 0 0
Grain Compensation	....	....	....	950 0 0	....	....	950 0 0	....	950 0 0
Local Allowance	75,000 0 0	7 11 10	....	300 0 0	....	....	75,307 11 10	....	75,307 11 10
Cost of Casket and Address presented to the retiring Governor and to the Governor Designate and other expenses in connection therewith	.. ..	....	....	1,499 5 0	78 3 0	....	1,577 8 0	....	1,577 8 0
Contribution towards the building to be erected at the Apollo Bunder to commemorate the Visit of His Imperial Majesty the King-Emperor of India	....	....	....	1,00,000 0 0	....	....	1,00,000 0 0	....	1,00,000 0 0
Miscellaneous carried over Rs. ..	1,92,000 0 0	14,627 11 10	8,649 7 5	1,03,849 5 0	78 3 0	....	3,19,204 11 3	....	3,19,204 11 3
Carried over Rs. ..	75,55,411 4 3	2,91,337 8 9	5,43,539 14 10	2,68,861 2 8	1,64,840 4 11	1,64,418 7 11	85,56,112 2 6	2,67,160 0 0	82,89,112 2 6

Appendix No. 4—*concluded.*

PARTICULARS.	Original Grants sanctioned by the Corporation under Section 129 of the Municipal Act.	Additional Grants sanctioned by the Corporation under Section 131 (1).	Additional Grants sanctioned by the Corporation in respect of unexpended balances of Grants for 1911-12 and previous years required as mentioned in 1912-13 but not utilized in that year, and of Budget Grants for 1912-13 not wholly or partially utilized in that year.	Lapsed Grants for 1912-13 revived by the Standing Committee under Section 131.	*Add*—Transfers as per Section 132.	*Deduct*—Transfers as per Section 133.	Total.	*Less*—Anticipated Savings as per Revised Estimates of Expenditure for 1913-14.	Final Sanctioned Grants.
1	2	3	4	5	6	7	8	9	10
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ..	75,55,411 4 3	2,91,337 8 9	4,42,639 14 10	2,68,801 9 8	1,64,240 4 11	7,64,418 7 11	83,58,312 2 9	1,67,100 0 0	83,91,032 2 9
MISCELLANEOUS—*contd.*									
Brought forward Rs. ..	1,92,030 0 0	14,627 12 10	8,649 7 5	1,03,849 3 0	78 3 0	....	3,19,204 11 3	....	3,19,204 11 3
Contribution to the Bombay Sanitary Association for the construction of a Sanitary Institute in Bombay	....	15,000 0 0	....	....	....	....	15,000 0 0	....	15,000 0 0
Contribution towards the Children's Fete held in Bombay in commemoration of H. E. the Viceroy's recovery..	....	5,000 0 0	....	....	....	....	5,000 0 0	....	5,000 0 0
Contribution towards the expenses of King George V Anti-tuberculosis League	10,000 0 0	....	....	....	....	....	10,000 0 0	....	10,000 0 0
Writing off a portion of the amount of Rs. 1,771-1-3 misappropriated by the G Ward Deputy Health Officer's Head Clerk Moreshwar Harichand Thakur	....	771 1 3	....	....	....	....	771 1 3	....	771 1 3
Cost of the Casket for the Address presented to the Corporation to His Excellency the Viceroy on his visit to Bombay and of illuminating and engrossing the address and other necessary expenditure in connection therewith	....	2,800 0 0	....	....	....	....	2,800 0 0	....	2,800 0 0
House Rent	....	2 9 9	....	....	....	....	2 9 9	....	2 9 9
Writing off a portion of the difference between the book value and the sale proceeds of certain surplus and obsolete stores belonging to the Drainage Department	....	10,500 0 0	....	....	....	....	10,500 0 0	....	10,500 0 0
Total Rs. ..	2,02,000 0 0	48,201 6 10	8,649 7 5	1,03,849 3 0	78 3 0	....	3,62,778 8 3	....	3,62,778 8 3
CONTRIBUTION TO THE CITY IMPROVEMENT TRUST UNDER SECTION 72 (1) OF ACT IV OF 1898 ..	9,25,000 0 0	7,500 0 0	....	....	....	....	9,32,500 0 0	400 0 0	9,32,100 0 0
Total Rs. ..	9,25,000 0 0	7,500 0 0	....	....	....	....	9,32,500 0 0	400 0 0	9,32,100 0 0
MUNICIPAL DEBT—									
Interest on Loans	27,28,982 5 0	....	88,583 10 1	92,427 8 0	....	140 0 0	28,89,853 7 1	70,650 0 0	28,19,203 7 1
Charges on account of Loans ..	13,415 1 0	....	....	....	140 0 0	....	13,555 1 0	....	13,555 1 0
Payment towards the reduction of debt	1,40,738 11 0	....	12,500 0 0	20,500 0 0	....	....	1,73,738 11 0	....	1,73,738 11 0
Payment towards the Investment of Sinking Fund	6,16,518 10 9	109 0 0	....	....	....	....	6,16,627 10 9	....	6,16,627 10 9
Total Rs. ..	34,99,654 11 9	109 0 0	81,083 10 1	1,12,927 8 0	140 0 0	140 0 0	36,93,779 13 10	70,650 0 0	36,23,129 13 10
INVESTMENTS—									
Municipal Buildings Fire Insurance Fund	10,000 0 0	....	....	....	....	....	10,000 0 0	....	10,000 0 0
Total Rs. ..	10,000 0 0	....	....	....	....	....	10,000 0 0	....	10,000 0 0
Adjustment (part) of the advance of Rs. 2,10,055-7-4 outstanding under "Plague Expenditure Suspense Adjustment Account" ..	1,00,000 0 0	....	....	....	....	....	1,00,000 0 0	....	1,00,000 0 0
Total Rs. ..	1,00,000 0 0	....	....	....	....	....	1,00,000 0 0	....	1,00,000 0 0
GRAND TOTAL Rs. ..	1,22,92,066 0 0	2,47,147 15 7	5,32,376 0 4	4,85,578 8 8	1,64,558 7 11	7,64,558 7 11	1,26,67,170 8 7	2,38,150 0 0	1,24,19,020 8 7

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix No. 5.

EXPENDITURE.

STATEMENT showing the Actuals as compared with the Final Sanctioned Grants for 1913-14 as per Appendix No. 4 and the Actuals of the preceding year.

PARTICULARS.	Actuals for 1912-13.	Final Sanctioned Grants for Expenditure during 1913-14 as per Appendix No. 4.	Actuals for 1913-14.	As compared with the Final Sanctioned Grants as per column No. 3.		Amount proposed to be renewed in 1914-15 out of savings as per column No. 6.	Net Savings.	As compared with the Actuals for 1912-13 as per column No. 2.	
				More.	Less.			More.	Less.
1	2	3	4	5	6	7	8	9	10
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
GENERAL SUPERINTENDENCE—									
Corporation and Standing Committee's Establishment	76,496 15 3	80,700 13 0	80,473 11 4	.. ..	227 1 8	....	227 1 8	3,976 12 11	....
Municipal Commissioner's Personal Office Establishment	63,248 1 9	72,644 0 0	69,094 4 4	....	3,549 11 8	118 10 8	3,431 1 5	5,845 2 7	....
General Office Establishment	86,196 11 4	1,08,546 6 10	71,877 0 9	....	36,671 6 1	19,047 1 1	17,624 5 0	....	14,321 10 7
Accounts and Expenditure Audit Establishment	88,580 0 8	91,073 3 10	90,214 3 6	....	859 0 4	....	859 0 4	1,634 2 10	....
	3,14,524 13 0	3,52,968 7 8	3,31,659 3 11	....	41,307 3 9	19,165 11 4	22,141 8 5	11,456 1 6	14,321 10 7
ASSESSMENT AND COLLECTION DEPARTMENT—									
Property and Wheel Tax Establishment	2,16,803 3 11	2,20,096 0 0	2,15,079 4 1	....	5,016 11 11	2,448 0 0	2,568 11 11	....	1,423 15 10
Town Duty Collection	1,19,462 13 11	1,26,561 4 3	1,28,221 8 8	....	8,339 11 7	....	8,339 11 7	8,758 10 9	....
Tolls Collection	536 13 8	660 0 0	532 13 7	....	127 2 5	....	127 2 5	..	4 0 1
Licensing Establishment	21,705 15 7	23,988 6 2	22,811 11 5	....	1,013 10 9	18 1 0	995 9 9	1,765 11 10	....
Revenue and Refund Audit Establishment	82,296 12 8	77,889 10 3	74,888 13 1	....	3,064 13 2	65 3 2	2,999 10 0	....	7,407 12 7
	4,40,805 11 9	4,59,196 4 8	4,41,534 2 10	....	17,562 1 10	2,531 4 2	14,970 12 8	10,524 6 7	8,835 12 6
FIRE BRIGADE—									
Fire Brigade	3,20,928 15 9	1,76,407 3 8	1,65,023 15 6	....	11,383 3 2	4,491 5 8	6,891 14 1	....	2,55,905 1 3
	3,20,928 15 9	1,76,407 3 8	1,65,023 15 6	....	11,383 3 2	4,491 5 8	6,891 14 1	....	2,54,905 1 3
MAINTENANCE OF PUBLIC GARDENS—									
Victoria Gardens Maintenance ..	64,488 12 10	80,003 1 7	70,009 12 5	....	19,993 5 2	18,918 0 1	1,075 5 1	5,520 15 5	....
Do. New Works ..	7,969 9 9	18,122 10 11	10,554 12 10	....	7,567 14 1	6,996 14 3	568 15 10	2,585 3 1	....
Elphinstone Circle Garden	1,649 7 11	1,646 3 5	1,332 7 4	....	313 12 1	112 15 8	200 12 5	....	317 0 7
Falkland Road Garden	386 11 2	253 6 4	181 12 8	....	71 9 7	44 1 6	27 8 1	....	204 14 5
Northbrook Garden	1,450 10 11	1,613 8 11	1,295 14 11	....	317 8 6	232 2 4	174 5 8	....	254 17 0
Sir C. Jehangir Garden at Mahim ..	435 9 11	261 0 0	197 14 9	....	63 1 3	15 5 6	47 11 9	....	237 11 2
Bazaar Gate Street Garden	244 12 1	227 8 3	198 1 11	....	29 6 4	....	29 6 4	....	46 10 2
Dick's Tank Garden	247 7 10	186 11 6	160 2 3	....	26 9 3	26 11 1	1 14 2	....	87 5 7
Malabar Hill Garden	688 0 0	1,265 13 1	616 5 4	....	649 7 9	200 0 0	349 7 9	....	71 10 8
Esplanade Road Garden	4,897 2 6	6,003 2 6	4,951 10 4	....	1,051 15 2	795 2 6	256 12 8	54 7 10	....
Chowpatti Bandstand	1,460 0 0	2,000 0 0	1,721 2 7	....	778 13 5	....	778 13 5	....	238 13 5
Flora and Wellington Fountains and the Queen's Statue	53 7 6	1,595 6 6	1,152 11 11	....	442 12 7	369 5 9	73 6 10	1,099 4 5	....
	83,991 12 5	1,23,181 0 0	91,682 13 4	....	31,498 2 8	27,813 10 8	3,684 8 0	9,259 13 11	1,558 14 0
PUBLIC WORKS (ENGINEER'S DEPARTMENT)—									
I. GENERAL SUPERVISION AND MISCELLANEOUS DUTIES ..	80,484 2 10	94,885 2 0	90,512 1 2	....	4,373 0 10	2,064 5 2	2,308 11 8	10,027 14 4	....
II. MECHANICAL BRANCH—									
Maintenance of Compressor Station, Colaba (Shone System)	34,156 11 4	35,008 0 0	34,361 1 6	....	646 14 6	223 0 0	423 14 6	204 5 7	....
Maintenance of Love Grove Pumping Station	1,43,354 14 10	1,32,504 0 0	1,76,864 1 1	....	6,939 14 11	580 0 0	6,359 14 11	32,490 2 3	....
Maintenance of Air Compressor Station at Love Grove (Shone System)	75,622 14 4	93,443 0 0	89,296 9 0	....	4,145 7 0	3,294 0 0	851 7 0	13,673 10 8	....
Maintenance of Storm Water Sluices	1,675 2 0	2,566 0 0	2,165 11 1	....	400 4 11	35 0 0	365 4 11	490 8 11	....
III. SANITARY-DISPOSAL OF TOWN SWEEPINGS	1,08,135 7 2	93,260 2 3	86,325 11 9	....	1,964 6 6	1,292 13 5	671 9 1	....	18,759 11 6
IV. DRAINAGE—									
A. Miscellaneous Drainage ..	2,49,842 9 11	2,67,038 0 0	2,62,664 5 1	....	4,366 10 11	2,641 0 0	727 10 11	12,821 11 2	....
B. Maintenance of Sluices ..	2,803 2 0	3,144 0 0	2,434 4 3	....	709 11 9	....	709 11 9	....	368 4 9
V. WATER WORKS	3,32,406 13 0	4,76,206 2 7	3,56,900 8 5	....	1,19,305 10 2	92,659 3 8	26,646 6 6	23,492 11 5	....
VI. STREETS AND BUILDINGS—									
A. Inspection and Supervision ..	1,83,069 11 8	1,96,069 0 0	1,91,472 2 9	....	4,596 13 3	1,815 10 4	2,780 2 11	10,484 7 1	....
B. Public Lighting	3,97,562 15 11	4,67,520 0 0	4,20,128 1 5	....	67,391 14 6	40,991 9 10	21,399 4 8	27,574 1 7	....
C. Road Watering	80,915 1 9	1,08,475 6 10	1,22,389 5 9	....	35,806 1 1	35,806 1 1	....	41,954 4 0	....
CI. Oiling and Tarring Roads (Experimental)	44,820 6 8	88,596 4 3	41,118 12 10	....	17,477 6 5	17,477 6 5	....	....	3,701 9 10
D. Roads, Footpaths, &c. ..	4,86,746 3 4	7,23,268 8 6	5,43,010 14 2	....	91,257 5 4	86,536 15 5	5,100 5 11	1,53,264 10 10	....
E. Street Improvements	1,15,759 9 2	1,69,843 9 1	1,35,694 9 0	....	34,149 0 1	34,149 0 1	....	19,934 15 10	....
F. Miscellaneous (compensation to house-owners for insanitary Buildings demolished) ..	2,937 8 7	2,250 0 0	549 4 8	....	1,700 11 4	....	1,700 11 4	....	2,388 3 13
VII. CLEANING, LIGHTING AND REPAIRING PORT TRUST WHARVES, ROADS, DOCKS, &c.	40,183 0 0	40,183 0 0	40,183 0 0	....	....	....	....	....	....
	23,70,496 14 7	30,36,353 14 6	26,95,331 9 0	....	3,40,922 5 6	3,20,826 1 5	70,096 4 1	3,27,653 2 8	22,923 13 0
Carried over Rs. ..	35,20,535 3 6	41,98,004 14 1	37,05,391 12 7	....	4,92,613 1 6	3,74,828 1 3	1,17,784 0 3	3,77,789 14 2	2,06,987 5 4

Appendix No. 5—*continued.*

Particulars.	Actuals for 1913-13.	Final Sanctioned Grants for Expenditure during 1913-14 as per Appendix No. 4.	Actuals for 1913-14.	As compared with the Final Sanctioned Grants as per column No. 3.		Amount proposed to be renewed in 1914-15 out of savings as per column No. 6.	Net Savings.	As compared with the Actuals for 1912-13 as per column No. 2.	
				More.	Less.			More.	Less.
1	2	3	4	5	6	7	8	9	10
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward ..Rs.	35,29,535 3 6	41,98,001 14 1	37,05,991 12 7	....	4,92,613 1 6	3,74,628 1 3	1,17,785 0 3	2,77,793 14 5	2,01,937 5 4
New Works	1,88,814 12 3	5,98,423 7 11	2,47,490 6 11	....	3,50,932 1 0	3,28,244 13 11	22,688 3 1	58,676 10 8	....
	1,88,814 12 3	5,98,423 7 11	2,47,490 6 11	....	3,50,932 1 0	3,28,244 13 11	22,688 3 1	58,676 10 8	....
Public Health Department—									
General Supervision	1,35,691 1 4	1,37,782 14 3	1,34,829 8 5	....	2,953 5 10	673 4 3	2,280 1 7	....	1,861 8 12
Conservancy Branch	16,96,899 1 4	17,82,559 4 10	16,88,779 4 9	....	93,780 0 1	43,738 6 3	50,041 9 5	....	8,119 12 7
Markets and Slaughter Houses ..	1,89,506 5 6	2,21,801 15 11	1,92,939 2 10	....	27,862 13 1	17,751 14 10	10,110 14 3	4,432 13 4	....
Registration of Births and Deaths	81,199 5 8	87,108 0 0	83,163 3 2	....	3,944 12 10	1,455 2 7	2,489 10 3	1,963 13 6	....
Cemeteries	12,158 8 8	13,332 6 1	13,901 11 4	....	1,430 10 9	184 15 4	1,245 11 5	1,743 2 11	....
Dispensaries	13,724 7 2	15,992 3 0	14,262 12 10	....	1,729 6 2	230 0 0	1,499 6 2	538 5 8	....
Mahalaxmi Dhobiwada	15,707 3 1	17,042 0 0	14,297 12 1	....	2,744 3 11	913 0 0	1,833 3 11	....	1,409 7 0
Milch Cattle Stables and Rooms ..	6,176 6 7	7,547 7 2	6,180 14 1	....	1,366 9 1	....	1,366 9 1	4 7 6	....
Laboratory	15,885 6 10	20,477 9 4	16,404 0 8	....	4,073 8 8	1,602 14 0	2,470 10 8	518 9 10	....
Rustomjee Jamshedjee Dharamshalla	779 9 4	935 0 0	612 3 2	....	322 12 10	210 0 0	112 12 10	....	167 6 2
Infectious Diseases	85,899 0 10	64,817 5 11	64,317 1 8	....	10,480 4 3	5,200 0 0	5,180 4 3	....	11,581 15 2
Vaccination	26,722 5 3	34,148 14 3	31,983 6 4	....	2,285 7 11	680 0 0	1,605 7 11	5,321 1 1	....
Malaria..	50,083 13 1	65,159 5 6	56,557 4 6	....	8,602 1 0	6,125 11 0	2,476 6 0	6,473 7 5	....
Plague	1,47,763 0 2	1,10,690 9 6	1,24,882 0 9	....	28,008 8 9	5,000 0 0	21,008 8 9	....	23,080 15 4
	24,39,168 10 7	26,21,434 15 9	24,33,810 6 7	....	1,87,624 9 2	88,768 4 8	1,08,872 4 6	20,843 12 3	46,194 1 5
General Stores—									
Establishment and Contingencies	34,069 7 8	39,084 0 10	35,093 6 3	....	3,990 10 7	3,727 13 11	262 10 8	1,023 14 7	....
	34,069 7 8	39,084 0 10	35,093 6 3	....	3,990 10 7	3,727 13 11	262 10 8	1,023 14 7	....
Education—									
Primary Education	3,37,257 0 0	4,02,817 0 0	4,02,817 0 0	....	....	....	....	65,560 0 0	....
School for Deaf and Dumb Mutes..	3,000 0 0	3,000 0 0	3,000 0 0	....	....	....	....	....	....
Veterinary College	2,500 0 0	2,500 0 0	2,500 0 0	....	....	....	....	....	....
Victoria and Albert Museum ..	15,269 0 3	20,546 1 6	15,617 6 6	....	4,928 11 0	3,743 14 1	1,184 12 11	348 6 3	....
Victoria Jubilee Technical Institute	20,000 0 0	20,000 0 0	20,000 0 0	....	....	....	....	....	....
Prince of Wales Museum	25,000 0 0	25,000 0 0	25,000 0 0	....	....	....	....	....	....
Schools Committee's Establishment	12,925 5 0	13,966 10 5	13,850 15 5	....	115 11 0	....	115 11 0	965 10 5	....
Victoria Memorial School for the Blind.	2,500 0 0	2,500 0 0	2,500 0 0	....	....	....	....	....	....
	4,18,511 5 3	4,90,329 11 11	4,85,285 5 11	....	5,044 5 0	3,743 14 1	1,300 7 11	66,774 0 8	....
Census	4,145 3 0	....	....	....	....	....	....	....	4,145 3 0
Hospitals—									
Medical Institutions..	4,14,500 0 0	4,14,500 0 0	4,14,500 0 0	....	....	....	....	....	....
Lepers' Asylum at Matunga ..	26,160 0 0	22,725 0 0	21,840 0 0	....	1,885 0 0	....	1,885 0 0	....	4,320 0 0
Adams-Wylie Hospital	4,000 0 0	4,000 0 0	4,000 0 0	....	....	....	....	....	....
Bombay Sanitary Association ..	1,500 0 0	1,500 0 0	1,500 0 0	....	....	....	....	....	....
	4,46,160 0 0	4,42,725 0 0	4,41,840 0 0	....	1,885 0 0	....	1,885 0 0	....	4,320 0 0
Carried over Rs. ..	70,60,394 10 3	83,91,013 2 6	73,43,511 6 3	....	10,42,100 12 3	7,94,368 1 10	2,47,732 10 5	5,26,113 5 7	2,56,596 9 7

Appendix No. 5—*concluded.*

Particulars.	Actuals for 1912-13.	Final Sanctioned Grants for expenditure during 1913-14 as per Appendix No. 4.	Actuals for 1913-14.	As compared with the Final Sanctioned Grants as per column No. 3.		Amount proposed to be renewed in 1914-15 out of savings as per column No. 6.	Net Savings.	As compared with the Actuals for 1912-13 as per column No. 2.	
				More.	Less.			More.	Less.
1	2	3	4	5	6	7	8	9	10
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ..	70,80,394 10 3	83,91,012 2 6	73,48,911 6 3	....	10,42,100 12 3	7,94,508 1 10	2,47,792 10 5	2,52,113 5 7	2,86,596 9 7
MISCELLANEOUS:—									
Pensions, Gratuities and Compassionate Allowances	96,913 7 7	1,23,269 7 6	1,07,498 11 10	....	15,770 11 7	15,770 11 7	....	10,585 4 3	....
Discretional Contingencies ..	4,014 4 9	8,100 0 0	2,749 13 4	....	5,350 2 8	2,141 10 11	3,208 7 9	....	2,264 7 5
Auditors' Allowance	10,000 0 0	10,000 0 0	10,000 0 0	....	....	....	....	....	....
Loss on account of Private Works irrecoverable bills written off ..	267 6 0	....	....	....	....	....	....	....	267 6 0
House rent	Cr. 4 10 4	2 9 9	2 9 9	....	....	....	....	7 4 9	267 6 0
Grain Compensation	1,13,783 9 6	980 0 0	797 14 3	....	182 1 9	....	182 1 9	....	1,21,985 11 3
Local Allowance	55,492 13 4	75,307 11 10	73,199 14 7	....	2,107 13 3	150 0 0	1,957 13 3	17,807 1 3	....
Contribution towards the expenses of the King George V Antituberculosis League	10,000 0 0	10,000 0 0	10,000 0 0	....	....	....	....	....	....
Cost of Caskets and Addresses to be presented to Lord Sydenham, the retiring Governor, and to Lord Willingdon, the Governor Designate	750 11 0	1,577 8 0	1,577 8 0	....	....	....	....	826 13 0	....
Charges in connection with the illumination of the Municipal Office Buildings, &c., during Royal Visit	29,714 10 1	....	....	....	....	....	....	....	29,714 10 1
Loss written off on account of deficiency in the stock at the Bellasis Bridge Pipe Depot ..	1,528 2 6	....	....	....	....	....	....	....	1,528 2 6
Refund of a portion of the amount recovered for the right of collecting fees at the scale shed at A. C. Markets	1,000 0 0	....	....	....	....	....	....	....	1,000 0 0
Compensation to a Victoria Driver in respect of his claim for damage caused to his carriage ..	125 0 0	....	....	....	....	....	....	....	125 0 0
Contribution towards the fund for the Children's Fete held in Bombay in commemoration of His Excellency the Viceroy's recovery	....	5,000 0 0	5,000 0 0	....	....	....	....	5,000 0 0	....
Contribution to the Bombay Sanitary Association for the construction of a Sanitary Inquiries in Bombay	....	15,000 0 0	....	....	15,000 0 0	15,000 0 0	....	....	....
Contribution towards the building to be erected at Apollo Bunder to commemorate the visit of His Majesty the King Emperor of India	....	1,00,000 0 0	1,00,000 0 0	....	....	....	....	1,00,000 0 0	....
Writing off a portion of the amount of Rs. 1,771-1-3 misappropriated by the Head Clerk M. H. Thakur of C Ward.. ..	....	771 1 3	764 3 9	....	6 13 6	....	6 13 6	764 3 9	....
Cost of the Casket presented to His Excellency the Viceroy on his Visit to Bombay and other expenses in connection therewith	....	2,300 0 0	1,600 7 6	....	699 8 6	699 8 6	....	1,600 7 6	....
Portion of the difference between the book value and the sale proceeds of certain surplus and obsolete stores, &c., of the Drainage Department written off ..	....	10,500 0 0	10,500 0 0	....	....	....	....	10,500 0 0	....
	3,23,795 5 5	3,62,778 6 3	3,23,691 3 0	....	39,087 3 3	33,761 14 9	5,325 4 6	2,46,751 2 10	2,46,945 5 3
CONTRIBUTION TO THE CITY IMPROVEMENT TRUST	9,25,000 0 0	9,32,100 0 0	9,32,093 10 11	....	6 5 1	....	6 5 1	6093 10 11	....
MUNICIPAL DEBT—									
Interest on Loans	25,95,767 6 5	28,19,208 7 1	26,47,128 6 7	....	1,72,080 0 6	1,64,661 15 12	7,418 0 7	51,361 0 2	....
Charges on Loans	12,021 10 11	13,555 1 0	12,344 7 4	....	1,210 9 8	....	1,210 9 8	322 12 5	....
Payment towards the reduction of Debt	1,18,830 9 0	1,73,738 11 0	1,58,238 11 0	....	15,500 0 0	15,500 0 0	....	39,408 2 0	....
Payment towards the investment of sinking Fund	6,16,777 8 4	6,16,687 10 9	6,16,518 10 9	....	169 0 0	....	169 0 0	....	259 13 7
	33,43,397 2 8	36,23,129 13 10	34,34,230 2 8	....	1,88,899 10 2	1,80,161 15 11	8,737 10 3	91,091 14 7	259 13 7
INVESTMENTS—									
Municipal Buildings Fire Insurance Fund	10,000 0 0	10,000 0 0	10,000 0 0	....	....	....	....	....	....
Adjustment (Final) of the advance of Rs. 9,10,052-7-4 outstanding under "Plague Expenditure Suspense Adjustment Account" ..	1,16,81,587 2 4	1,33,19,020 6 7	1,20,48,926 7 10	....	12,70,093 14 9	....	....	3,70,000 2 11	4,22,260 13 6
	9,10,052 7 4	1,00,000 0 0	1,00,000 0 0	....	....	....	....	....	2,10,052 7 4
GRAND TOTAL RS. ..	1,19,91,639 9 8	1,34,19,020 6 7	1,21,48,926 7 10	....	12,70,093 14 9	10,08,323 0 9	2,61,861 14 0	3,70,000 2 11	6,32,312 13 6
							Less Rs. ..	6,12,963 2 2	....
							Net Increase..	1,57,036 14 9	....

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix No. 5-A.

STATEMENT showing (1) the Grants Sanctioned for New Works, (2) the Expenditure incurred on them, and (3) the Balances of the grants remaining unexpended.

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended balances of the grants to be renewed.	
		For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	General Office Establishment.						
1	Renewing the terrace roof over the retiring room of the Water Engineer in the Municipal Office building and removing and replacing tanks thereat over rolled steel joists ...	338 8 0	.....	267 7 10	.....	.....	.....
2	Renewing the terrace roof over the retiring room of the Assessor and Collector and renewing and replacing tanks thereat over rolled steel joists	451 7 5	.....	212 7 8	.....	.....	.....
	Licensing Establishment.						
3	Construction of a ward office for E Ward	.....	1,509 0 0	.....	1 8 0	.....	1,507 8 0
4	Construction of a ward office for F and G Wards	.....	1,509 0 0	.....	1 8 0	.....	1,507 8 0
	Fire Brigade.						
5	Constructing a drill tower at Haines Road Fire Brigade station and other works in connection therewith ...	.....	3,121 0 0	.....	1,079 12 6	.....	2,041 3 6
6	Constructing an additional water closet in the compound of the Babula Tank Fire Brigade Station	.....	381 0 0	.....	.....	.....	381 0 0
	Mechanical Branch Workshops.						
7	Purchase of a power-driven T angle and flat bar bending machine	.....	2,000 0 0	.....	.....	.....	2,000 0 0
8	Purchase of a hand power pipe bending machine	.....	550 0 0	.....	.....	.....	550 0 0
	Love Grove Pumping Station.						
9	Providing a five seated Latrine at Workmen's Chawl at Love Grove Pumping Station ...	.....	2,105 0 0	.....	.....	.....	2,105 0 0
	Drainage.						
10	Laying a 9" pipe sewer at Arthur Road from Jacob Circle to the north of Milch Cattle stables	.....	8,538 0 0	.....	7,999 2 10	.....	534 0 0
11	Extending the culvert at the junction of Arthur Road and DeLisle Road	.....	5,807 0 0	.....	5,171 13 6	.....	.....
	Carried over Rs. ...	789 15 5	25,020 0 0	479 15 1	14,253 12 10	.....	10,526 3 6

Appendix No. 5-A—*continued.*

No.	NAME of WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs.	789 15 5	25,020 0 0	479 15 1	14,253 12 10	.....	10,626 3 6
	Drainage—*contd.*						
12	Constructing a storm water drain with half size water gullies and water tables at Trinity Street	.....	4,965 0 0	.....	1,146 15 4	.....	3,681 0 0
13	Filling in road side drain and providing a new masonry drain with 8 water entrances at Thakurdwar Road	.....	5,703 0 0	.....	3,760 4 3	.....	1,942 0 0
14	Constructing a storm water drain with 3 manholes over it at Wari Bunder cross passage and providing water entrances at Wari Bunder Road... ...	.....	3,880 0 0	.....	3,871 13 3	.....	.....
15	Providing a covered stormwater drain in portions of Churni Road and Khetwadi Main Road from Khetwadi Back Road to Chunam Kiln Road.	.....	13,499 0 0	.....	2,136 11 2	.....	11,300 0 0
16	Constructing a wooden fence and brick masonry wall for the compound of the Chief Inspectors Chowki at Babula Tank Road	.....	5,551 0 0	.....	2,626 9 10	.....	2,924 0 0
17	Permanent manholes over storm water drains	.....	3,000 0 0	.....	2,592 11 1	.....	407 0 0
18	Laying storm water pipe drain along Mahim Bazar Road ...	.....	5,188 0 0	.....	4,296 8 10	.....	890 0 0
19	Filling in open side drain and constructing a masonry covered drain in Arab Lane...	.....	3,792 0 0	.....	3,755 7 7	.....	.....
20	Constructing a storm water drain along the passage on the north of Water Tank near Gowalia Tank Road	.....	3,615 0 0	.....	3,603 9 0	.....	.....
21	Relieving arches at Falkland Road	.....	5,000 0 0	.....	4,488 12 11	.....	.....
22	Providing a storm water drain and 2 water entrances and water tables at Ripon Road Cross Lane	.....	2,732 0 0	.....	2,645 5 9	.....	.....
23	Providing a storm water drain with water gullies and water tables at Gilder Street ...	.....	3,738 0 0	.....	3,644 7 0	.....	.....
24	Providing a storm water drain in Gowalia Tank Road from the existing storm water drain up to the proposed passage	.....	3,745 0 0	.....	3,725 8 11	.....	.....
25	Reserve for Petty Drainage works	102 10 4	7,970 0 0	94 8 9	6,240 3 9	.....	1,702 0 0
26	Providing a covered drain in Nepean Sea Road opposite H. H. Nizam's bungalow... ...	53 4 11	.....	45 6 9	.....	.....	.....
	Carried over Rs.	945 14 8	97,898 0 0	619 14 7	62,788 13 6	.....	33,472 3 6

Appendix No. 5-A—*continued.*

No.	NAME of WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs.	945 14 8	97,398 0 0	619 14 7	62,788 13 6	.....	33,473 3 6
	Drainage—*contd.*						
27	Providing fair weather Cast Iron Concrete covers and frames for water entrances and water gullies in the whole of A Ward	2,740 0 9	.....	2,496 4 3	.....	243 0 0	.....
28	Renewing a storm water arch drain with a manhole and outfall behind the Marine Lines Station at Kennedy Sea Face	4,081 0 0	.....	4,020 15 3	.....	.....	.....
29	Laying a 9" sewer and raising a 6" drain to the low level channel No. 2, DeLisle Road, near Parbhadevi Road ...	9,217 0 0	.....	.....	.....	9,217 0 0	.....
30	Laying a 9" pipe sewer at Saitan Chowki near Khed Tank off Parbhadevi Road ...	12,514 0 0	.....	.....	.....	12,514 0 0	.....
31	Substituting Ejector of 700 gallons in Mazagaon No. 2 District	19,762 0 0	.....	5,935 12 7	.....	13,826 0 0	.....
32	Extending Brick Masonry Chowki at Belassis Bridge Pipe Depot	643 0 0	.....	.....	.....	643 0 0	.....
33	Shifting the existing water entrances at Parbhadevi Road for Street Improvement ...	1,009 8 9	.....	.....	.....	1,009 0 0	.....
34	Shifting 11 water entrances at Lansdowne Road	1,289 0 0	.....	1,256 1 4	.....	.....	.....
35	Laying 9" sewer on the east of Victoria Terminus Station and joining with Mint Road ovoid sewer	.....	5,459 0 0	.....	.....	.....	5,459 0 0
36	Constructing a storm water drain in Worli Road ...	.....	2,693 0 0	.....	.....	.....	2,693 0 0
	Water Works.						
37	Providing a mosquito proof gauge wire to the Ventilators and other openings in the roof of the Malabar Hill Reservoir	.....	3,200 0 0	.....	1,716 8 1	.....	1,483 7 11
38	Laying Mains in Chowpati Estate	.....	18,000 0 0	.....	8,350 12 2	.....	9,649 3 10
39	Laying 4" Mains in Forjet Street	.....	10,250 0 0	.....	4,981 10 11	.....	5,268 5 1
40	Laying 14" Mains in Belvedere Road	.....	5,870 0 0	.....	2,786 13 2	.....	.....
41	Laying out a garden at Bhandarwada Reservoir	.....	2,400 0 0	.....	1,238 7 5	.....	1,161 8 7
42	Pulling down and rebuilding a portion of the building occupied by the Superintendent Maintenance Branch at Chinchpokli	.....	10,086 0 0	.....	.....	.....	10,086 0 0
	Carried over Rs.	52,201 8 2	1,55,356 0 0	14,329 0 0	81,863 1 8	37,452 0 0	69,272 12 11

Appendix No. 5-A—*continued.*

No.	NAME of WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs.	52,201 8 2	1,55,356 0 0	14,329 0 0	81,863 1 3	37,452 0 0	69,272 12 11
	Water Works—*Contd.*						
43	Construction of an office for Building Inspector, G Ward ...	.....	4,000 0 0	.....	.....	.....	4,000 0 0
44	Extending 6" Main in Sewri Road to the 4" Main in Parel Tank Road *via* Golanji Hill Road	.....	5,485 0 0	.....	.....	.....	5,485 0 0
45	Completing water-proofing works at Malabar Hill Reservoir ...	13,638 0 6	.....	5,596 10 0	.....	8,041 6 6	.....
46	Providing a wire fence at Vehar Lake	898 0 0	.....	.....	.....	898 0 0	.....
47	Removing Vehar Villages ...	2,000 0 0	.....	.....	.....	2,000 0 0	.....
48	Purchase of Meter testing appliances and erecting a meter testing shed at Chinchpokli...	2,340 0 0	.....	.....	.....	2,340 0 0	.....
49	Covering Municipal Well at Matharpakhady	321 0 0	.....	318 4 11	.....	.....	.....
50	Rendering Reservoirs and Filters at Malabar Hill water tight:—						
	(a) Making Filters water tight	12,870 2 2	.....	1,324 3 1	.....	.....	.....
	(b) Making Vaults under Filters water tight ...	18,219 12 2	.....	12,848 15 4	.....	5,370 12 10	.....
51	Laying 5" Main in Temker Street	868 8 4	.....	763 2 4	.....	.....	.....
52	Laying 5" Main in Undria Street	704 2 2	.....	648 12 2	.....	.....	.....
53	Laying 5" Main in Tank Street..	420 3 10	.....	341 12 4	.....	.....	.....
54	Laying 5" Main in Kika Street.	429 9 0	.....	429 9 0	.....	.....	.....
55	Laying 5" Main from Carnac Road to Jumma Masjid ...	2,799 13 6	.....	2,366 11 2	.....	.....	.....
56	Laying 5" Main in Zaoba's Qart.	50 0 0	.....	35 13 10	.....	.....	.....
57	Laying 6" Main in Reay Road extension of Dockyard Road to Wari Bunder Road	4,874 2 1	.....	4,481 5 3	.....	.....	.....
	Carried over Rs.	1,13,634 13 11	1,64,841 0 0	43,484 3 5	81,863 1 3	56,102 3 4	78,757 12 11

Appendix No. 5-A—*continued.*

No.	NAME of WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs.	1,12,634 13 11	1,64,841 0 0	43,484 3 5	81,863 1 3	56,102 3 4	78,757 12 11
	Water Works—*concld.*						
58	Replacing 3" Main in Arthur Road by a 6" Main and to extend it so as to join the 6" Main in Kalachowki Road ...	521 15 6	.....	.....	.....	521 15 6	.....
59	Constructing a Culvert over the Tansa Main	11,928 5 10	.....	11,928 5 10	.....	.....	.....
60	Laying 9" Main in Hansraj Lane	1,200 0 0	.....	1,172 15 10	.....	.....	.....
61	Laying 4" Main in Arab Lane...	46 4 6	.....	46 4 6	.....	.....	.....
62	Laying 5" Main from Matarpakhady Road to Raja's Bungalow with a branch 5" Main..	.....	3,231 0 0	.....	.....	.....	3,231 0 0
63	Laying 5" Main in Champawady Cross Lane	.....	1,835 0 0	.....	.....	.....	1,835 0 0
	Executive Engineer's Department. *General Supervision and Miscellaneous Duties.*						
64	Enclosing the East and West Corridors of the Executive Engineer's Office	739 1 5	.....	736 13 2	.....	.....	.....
	Streets and Buildings.						
65	Improvement of Bhatia Baugh...	.....	71,203 0 0	.....	39,276 3 8	.....	31,926 12 4
66	Improvement at Mayo Road ...	1,706 11 2	1,200 0 0	1,706 11 2	1,161 8 11	.....	.....
67	Purchase and fixing of 70 street name boards	1,032 8 0	.....	881 4 2	.....	151 3 10	.....
68	Improving the gradients of Worli Road	.....	12,036 0 0	.....	690 8 11	.....	11,345 7 1
69	Improving the gradients of Forjet Street	.....	15,794 12 2	.....	.....	.....	15,794 12 2
70	Constructing a cabstand with pavement in Cathedral Street, Bhuleshwar	.....	577 0 0	.....	463 15 9	.....	.....
71	Fixing a mirror at the junction of Hughes and Gamdevi Roads	.....	1,719 0 0	.....	.....	.....	1,719 0 0
72	Putting up eight 4' water tanks in F and G Wards and two at the junction of Napier and Beach Roads and two at Fort Street	256 1 10	.....	192 6 4	.....	.....	.....
	Carried over Rs.	1,30,065 14 2	2,72,436 12 2	60,149 0 5	1,23,474 6 6	56,775 6 8	1,44,609 12 6

Appendix No. 5-A—*continued.*

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs. ...	1,30,065 14 2	2,72,436 12 2	60,149 0 5	1,23,474 6 6	56,775 6 8	1,44,609 12 6
	Streets and Buildings—*contd.*						
73	Providing drainage arrangement for the Cabstand at Ormiston Road	.....	269 0 0	.....	.....	.....	183 5 1
74	Making a kutcha foot-path with Kerbstones and Water Tables at the North of Wari Bunder Road	.....	2,023 0 0	.....	2,021 13 2	.....	.....
	General Stores.						
75	Raising the floor of the godowns of the Bellasis Bridge Stores Depot	598 0 0	.....	364 3 4	.....	.....	.....
76	Constructing two wooden Chowkies for Ramosis at the Bellasis Bridge Pipe Depot	591 6 2	.....	.....	.....	.....	.....
	Sanitary (Health Department.)						
77	Construction of Latrines and Urinals	4,896 10 3	7,161 0 0	1,340 2 7	.....	3,556 7 8	7,161 0 0
78	Extension of Dhobiwada at Mahaluxmi by 50 stones ...	17,020 0 0	17,021 0 0	11,541 11 9	.....	5,478 4 3	17,021 0 0
79	Construction of a horse stable in F. Ward with 3 stalls	.....	2,493 0 0	.....	2 0 0	.....	2,493 0 0
80	Making a stone pavement round the latrines at Vadalla ...	.....	1,130 0 0	.....	1,129 12 6	.....	.....
81	Fencing Dhobiwada drying ground with barbed wire ...	.....	1,180 0 0	.....	.....	.....	1,180 0 0
82	Providing a tiled roof over the Tardeo Flats Biggaries' Chawl.	.....	2,026 0 0	.....	2,025 15 7	.....	.....
83	Paving with set stones the rear portion of Dadar Stable Yard, next to the water tank ...	.....	896 0 0	.....	895 13 1	.....	.....
84	Rebuilding of the wards at Maratha Hospital	.....	20,000 0 0	.....	47 0 8	.....	19,952 15 4
85	Erecting iron rails for checking carts and repairing the existing parapet wall at F. Ward stables	.....	1,330 0 0	.....	.....	.....	1,330 0 0
86	Providing gates for the Arthur Road stables	.....	1,154 0 0	.....	.....	.....	1,154 0 0
	Carried over Rs. ...	1,53,171 14 7	3,29,121 12 2	73,395 2 1	1,29,596 12 6	65,810 2 7	1,55,385 0 11

Appendix No. 5-A—*continued.*

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs. ...	1,53,171 14 7	3,39,121 12 2	73,395 2 1	1,29,596 13 6	65,810 2 7	1,95,085 0 11
	Sanitary (Health Department)—*contd.*						
87	Pulling down a 20-seated old pattern latrine, &c., in Halalkhore Barracks in Sukhlaji Street	.....	4,414 0 0	.....	4,413 5 7	.....	.....
88	Construction of 5 Kutchra wagons	1,769 0 0	.....	1,768 5 0	.....	.....	.....
89	Constructing the Night Soil Depot at Belwedere Hill Road.	1,383 8 4	.....	1,383 3 7	.....	.....	.....
90	Erecting temporary huts for housing the biggaries and cart-drivers of B. Ward North	2 14 1	.....	2 14 10	.....	.....	.....
91	Temporary extension of Municipal Laboratory...	3,423 5 7	.....	2,918 11 8	.....	507 9 11	.....
92	Paving and enclosing dust bin stands	1,870 1 6	.....	114 9 4	.....	1,755 8 2	.....
93	Acquisition of 3 plots of land for the location of dust-bin carts	0 7 10	.....	.....	.....	.....	.....
94	Converting the existing Fire Brigade Lascar's quarters, etc., at Malabar Hill	2,340 0 0	.....	.....	.....	.....	.....
95	Constructing a pail depot near the Municipal latrine, &c., at Banganga Tank, Malabar Hill..	429 8 10	.....	429 8 3	.....	.....	.....
96	Constructing a shed for motors...	3,000 0 0	1,356 0 0	37 0 8	.....	2,962 15 4	1,356 0 0
97	Construction of a hopper to the North of Pilot Bunder Pier, Colaba on Military Lands ...	4,774 15 0	.....	4,774 11 11	.....	.....	.....
98	Constructing a quarter for grave diggers at Roman Catholic Cemetery	288 9 3	.....	.....	.....	.....	.....
99	Constructing a latrine and Pail depot at Ghorupdeo Road ...	15,038 6 9	.....	14,184 8 4	.....	.....	.....
100	Constructing an approach road at Mahim Burial Ground ...	581 5 7	.....	.....	.....	.....	.....
101	Building a wall for protecting the Mahim Burning and Burial Ground from the inroads of the sea	18,808 13 4	.....	.....	.....	18,808 13 4	.....
102	Constructing a new Hospital for Cattle at Tardeo Flats ...	.....	16,848 0 0	.....	36 1 0	.....	16,811 15 0
	Carried over Rs. ...	2,06,887 14 8	3,51,769 12 2	99,008 7 8	1,34,076 4 1	89,847 1 4	2,13,252 15 11

Appendix No. 5-A—*concluded.*

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.	For years previous to 1913-14.	For 1913-14.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs. ...	2,06,887 14 8	2,51,769 12 2	99,608 7 8	1,34,076 4 1	89,847 1 4	2,15,352 15 11
	Markets.						
103	Constructing a buffalo shed in the compound of Bandora Slaughter Houses	.....	3,982 0 0	.....	3,766 10 9	.....	.....
104	Construction of a Slaughter House at Arthur Road for killing pigs	.....	9,584 0 0	.....	35 13 6	.....	9,548 2 6
105	Improving the Drainage arrangement of the Fort Market	.....	4,145 0 0	.....	3,075 7 9	.....	1,069 8 3
106	Remodelling the Drainage arrangements of the Arthur Crawford Markets	4,817 3 8	.....	4,416 1 9	.....	401 1 11	.....
107	Draining the kitchen sink in the Superintendent's quarters and providing a Nahani, etc.	336 9 5	.....	336 9 5	.....	.....	.....
108	Inserting an ornamental panel over the entrance of the Arthur Crawford Markets ...	2,775 0 0	.....	2,775 0 0	.....	.....	.....
109	Rebuilding the sheep pens at Bandora Slaughter Houses ...	8,793 0 0	.....	.....	.....	8,793 0 0	.....
110	Construction of a small Slaughter House at the DeLisle Road Sheep Market	5,333 0 0	.....	.....	.....	5,333 0 0	.....
		2,28,942 11 9	3,69,480 12 2	1,06,556 2 10	1,40,954 4 1	1,04,374 3 3	2,23,870 10 8
		5,98,423 7 11		2,47,490 6 11		3,28,244 13 11	
	Gardens.						
111	Improving the Zoological portion of the Gardens	3,950 10 2	.....	564 13 11	.....	3,384 0 0	.....
112	Construction of a storm water drain in the Victoria Gardens.	1,183 0 0	4,500 0 0	1,183 0 0	1,935 5 1	.....	2,564 10 11
113	Construction of Overseer's quarters in the Victoria Gardens	6,229 0 9	.....	5,381 1 0	.....	847 15 9	.....
114	Setting up the stone elephant in the Victoria Gardens on a raised mound	.....	589 0 0	.....	386 12 5	.....	202 3 7
115	Providing 25 benches at Chowpatty Band Stand	.....	688 0 0	.....	688 0 0	.....	.....
116	Constructing new latrines for the Victoria Gardens ...	983 0 0	.....	415 13 5	.....	.....	.....
		12,845 10 11	5,777 0 0	7,544 11 4	3,010 1 6	4,231 15 9	2,766 14 6
		18,122 10 11		10,554 12 10		6,998 14 3	
	Grand Total Rs. ...	6,16,546 2 10		2,58,045 3 9		3,35,243 12 2	

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix

SURPLUS

DR. STATEMENT showing the state of the Surplus Cash

To	Rs. a. p	Rs. a. p.
Sums Payable—		
Deposits, &c., in cash	6,60,492 12 8	
Do. on account of Contractors' Government Paper (kept in office) ...	47,600 0 0	
Do. on account of Contractors' and Municipal Employés' Government Paper lodged with the Bank of Bombay	5,200 0 0	
Paper Deposits from Municipal employés and Contractors pending submission to the Bank of Bombay (kept in office)	4,460 0 0	
Government of Bombay on account of Income Tax	374 8 8	
Cheques payable	2,25,381 8 2	
Loan Works Establishment	17,869 15 8	
Contribution from Government towards the cost of Primary School Buildings	28,692 11 0	
		9,90,014 8 2
Reserve Stock per Contra	.....	4,25,808 14 0
Amount to be renewed in 1914-1915 for unpaid charges for and prior to 1913-1914	.....	10,03,282 0 9
Reserve Stock Purchases	1,47,855 7 7	
Stock adjustment account	1,625 11 4	
		1,49,481 2 11
		25,78,618 4 10
Balance at the close of the year 1913-1914—		
Minimum Cash Balance required by the Act	1,00,000 0 0	
Amount reserved for payment to the C. I. Trust on account of contribution from revenues earmarked for the purpose during the year	9,73,000 0 0	
SURPLUS CASH BALANCE	33,00,292 11 10	
		43,73,292 11 10
	Total Rs. ...	69,46,911 0 3

W. E. WAITE,
Chief Accountant.

No. 6.

CASH BALANCE.

Balance at the close of the year 1913-1914. Cr.

By			Rs. a. p.	Rs. a. p.
Cash Deposits and Investments—				
Cash balance in the Office and Bank Treasuries			2,70,679 1 6	
Surplus Funds investments			58,07,764 11 2	
				60,78,443 12 8
Advances—				
To Loan Works—				
Expenditure on Loan Works as per Appendix No. 6 A including Plague expenses up to 1903-1904			5,78,07,449 0 9	
Less—				
Amount drawn from Loan Funds as per Appendix No. 6 A			5,78,07,449 0 9	.....
To Municipal Officers, &c....			24,301 11 2	
Miscellaneous Advances			49,393 10 8	
To Private and Departmental Works including Workshops			71,705 15 11	
To printing and stamping, building and repair certificates and water application forms			77 1 1	
To Contractors			21,312 2 2	
New Works to be subsequently provided for under a new loan to be raised as per Appendix No. 6 C			2,44,216 4 6	
To Chief Auditor and Accountant, B. B. & C. I. Railway			3,007 0 0	
				4,19,513 13 6
Reserve Stock—				
Serviceable Stores—	Rs. a. p.			
Stock	3,01,349 3 6			
Water Works Imprest	3,908 13 3			
			3,05,258 0 9	
Executive Engineer (General)			249 6 0	
Line Suspense account			1,11,625 4 7	
			4,17,132 11 4	
Surplus and Obsolete stores			8,761 2 8	
				4,25,893 14 0
Sales (Stores)				23,059 8 6
			Total Rs. ...	69,46,911 0 8

P. R. CADELL,

Municipal Commissioner.

Appendix No. 6-A.

STATEMENT showing (1) the Amount of Loans raised, (2) the Expenditure on Loan Works, and (3) the Invested Balance on 31st March 1914.

	Amount of Loan raised.	Amount expended.
	Rs.	Rs. a. p.
DRAINAGE AND WATER WORKS (Rs. 26,94,000) LOAN OF 1878—		
Drainage, 1st Section	26,94,000	16,52,449 12 9 (a)
Water Works (Bbandarwada)		10,16,830 13 3
	26,94,000	26,69,280 10 0
SURFACE DRAINAGE WORKS	6,00,000	6,00,000 0 0
SANITARY WORKS (44 LAKHS) LOAN—		
Surface Drainage Works (Rs. 13,22,134-3-3—Rs. 6,00,000)... ...	44,00,000	7,22,134 3 3
Drainage (1883-84)...		10,74,551 2 0 (b)
Do. (1884)		4,01,080 11 5
Ripon Road		1,41,500 1 2
Other Sanitary Works		87,110 9 6
Water Works		18,95,947 12 0
	44,00,000	43,22,724 7 4
SANITARY WORKS (7 LAKHS) LOAN—		
Fort Drainage, &c.	7,00,000	4,62,997 0 0
Water Works		1,42,241 5 4
	7,00,000	6,04,578 5 4
DRAINAGE AND WATER WORKS (12 LAKHS) LOAN—		
Queen's Road Sewerage, &c.	12,00,000	9,01,187 8 2
Water Works (Frere Road, Main)		80,031 5 0
	12,00,000	9,81,488 8 2
MISCELLANEOUS WORKS (10,08,500) LOAN—		
Drainage Works	10,08,500	58,896 14 10
Cross Road at Mahalaxmi Station		19,504 4 8
Nowrojee Hill Road		70,089 2 0
Markets (Erskine Road, &c.)		4,86,906 2 8
Water Works		1,16,214 3 2
	10,08,500	7,51,200 11 4
HOUSE SULLAGE WATER CONNECTIONS, AGRIPADA (Rs. 2,48,000) LOAN	2,48,000	2,35,553 12 10
VARIOUS SANITARY WORKS (35 LAKHS) LOAN—		
Drainage	35,00,000	18,864 7 3
New Roads at Agripada and elsewhere		15,26,679 2 9
Bhuleshwar Market Extension and Foras Road Market		3,72,335 15 1
Other Works		4,11,271 5 9
Water Works		8,72,574 9 10
	35,00,000	31,97,225 8 8
TANSA WATER WORKS (147 LAKHS) LOAN...	1,47,00,000	1,46,96,383 7 0 (c)
MUNICIPAL BUILDING (INCLUDING FURNITURE, &c.) (8 LAKHS) LOAN.	8,00,000	7,93,060 3 0 (d)
FIRE BRIGADE QUARTERS, &C. (4½ LAKHS) LOAN	4,50,000	4,06,320 6 1
23½ LAKHS DRAINAGE, WATER WORKS, ROADS AND OTHER WORKS LOAN—		
Drainage	23,25,000	17,44,602 15 5
Falkland Road Overbridge		15,082 9 4
Wari Bunder Bridge		1,52,652 0 6
Other Works		5,895 14 1
Water Works		1,29,522 5 7
	23,25,000	20,47,750 12 5
Carried over Rs. ...	3,26,25,500	3,12,40,526 12 2

(a) Including Rs. 1,94,031-13-3 written off in 1902-03 on account of properties not then existing.
(b) Do. Rs. 98,438-1-9 do. do. do. do.
(c) Excluding Rs. 2,40,000 paid out of the premia received on the loan.
(d) Excluding Rs. 7,34,326-8-3 paid out of the Invested Fund.

No. 6-A—*concluded.*

	Amount of Loans raised.	Amount expended.
	Rs.	Rs a. p.
Brought forward Rs. ...	3,26,25,500	3,12,40,526 12 2
15¾ Lakhs Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works Loan—		
Drainage		5,69,077 1 0
Wari Bunder and Victoria Roads, *less* Rs. 1,56,500 contributed by the Port Trust for Wari Bunder Road	15,75,000	2,50,143 1 5
Burial Ground		2,11,652 4 5
Water Works		12,842 13 10
	15,75,000	10,43,715 4 8
25 Lakhs Loan for Sewerage, &c., Works—		
Drainage		11,25,083 14 4
Water Works	25,00,000	2,04,268 6 8
Disposal of Town Sweepings and Land for Burial Ground ...		11,33,264 0 0
	25,00,000	24,62,616 5 0
19¼ Lakhs Loan for Sewerage, Roads, &c., Works—		
Drainage	19,25,000	14,58,566 3 4
Miscellaneous Works		1,03,085 15 6
	19,25,000	15,56,652 2 10
24¾ Lakhs Loan for Sewerage and Water Works—		
Drainage	24,75,000	16,66,251 2 10
Water Works		2,54,239 10 0
	24,75,000	19,20,490 12 10
12¾ Lakhs Loan for Water Works—		
Water Works	12,75,000	11,74,755 15 2
2nd 24¾ Lakhs Loan for certain Sewerage Works—		
Drainage	24,75,000	9,17,940 12 4
13½ Lakhs Loan for various Sanitary, &c., Works—		
Health Department Chawls and Stables	13,50,000	9,85,629 14 11
15 Lakhs Loan for Street Improvement in different Places.	15,00,000	15,00,000 0 0
30 Lakhs Loan—For acquisition of sites for construction of various Overbridges	30,00,000	21,06,236 0 6
55 Lakhs Loan for Miscellaneous Works—		
Buildings, &c.		7,56,001 13 4
Roads, &c.		1,78,261 4 8
Drainage	55,00,000	29,96,801 3 9
Water Works		3,69,403 13 0
Miscellaneous		1,43,001 6 11
	55,00,000	44,38,469 9 8
70 Lakhs Loan for Tansa Reduplication and Auxiliary Works ...	29,00,000	13,81,572 11 1
20 Lakhs Loan for Street Improvements	6,00,000	6,00,000 0 0
Executed out of Savings on Different Loans—		
Drainage	.....	10,58,264 7 10
Water Works	.....	6,79,090 4 4
Markets	.....	1,09,262 14 8
Roads, &c.	.....	92,355 8 4
Street Improvements in different places	.....	2,40,000 0 0
Miscellaneous Works	.....	4,21,464 9 4
	.....	25,80,437 12 6
Advances from Surplus Balances—		
Drainage	.....	10,09,901 14 7
Water Works	.....	76,755 5 5
Roads and Overbridges	.....	5,24,973 8 10
Other Works	.....	2,76,774 3 6
	.....	18,98,405 0 4
Loan for Plague Expenses— Plague Expenses incurred from 1896-97 to 1903-04 (deducting Rs. 14¼ lakhs met from the Government Contribution, Rs. 16 Lakhs received from the City Improvement Trust and adjusted against this head and Rs. 9,10,052-7-4 met from advances from surplus loan balances in the first instance and written off by debit to Current Revenue during the years 1911-12 to 1913-14)	20,00,000	20,00,000 0 0
Grand Total ... Rs.	6,17,00,500 (*a*)	5,78,07,449 0 9 (*b*)

		Rs. a. p.
(*a*)	Amount of Loans raised	6,17,00,500 0 0
(*b*)	Do. expended	5,78,07,449 0 9
	Invested Balance (*vide* appendix 10, page 95) ...	Rs. 38,93,050 15 3

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix

STATEMENT showing (1) the various Municipal Loans and their Amounts, (2) the unutilized Balances to meet the cost of New Works, &c.,

Serial No.	NAME OF THE LOAN.	Amount raised.	Transferred to meet the cost of New Works provided out of savings on different Loans.
	1	2	3
		Rs.	Rs. a. p.
1	Drainage Loan of 1878	24,94,000	—24,719 6 0
2	Surface Drainage Works	6,00,000	.....
3	Sanitary Works Loan (44 lakhs)	44,00,000	—77,275 8 8
4	Tansa Water Works (147 lakhs)	1,47,00,000	—3,616 9 0
5	Sanitary Works Loan of 1887-88	7,00,000	—95,421 10 8
6	Sewerage Works and Water Supply Improvement (12 lakhs).	12,00,000	—2,18,531 7 10
7	Markets and other Miscellaneous Works (Rs. 10,08,500).	10,08,500	—2,57,299 4 8
8	House Sullage Water Connections, Agripada	2,48,000	—14,486 3 2
9	Various Sanitary Works (35 lakhs)	35,00,000	—3,02,774 7 4
10	New Municipal Office building (8 lakhs)	8,00,000	—66,538 13 0
11	Fire Brigade Quarters and Stations (14½ lakhs)	4,50,000	—46,679 9 11
12	Drainage Water Works, Roads and other works (23½ lakhs).	23,25,000	—2,77,249 3 7
13	Sewerage, Wari Bunder, &c., Roads, Burial-ground and certain Water Works (15¾ lakhs).	15,75,000	—3,09,684 2 5
14	Sewerage Water and other Sanitary Works (25 lakhs) ...	25,00,000	—34,853 4 10
15	Plague Charges (20 lakhs)	20,00,000	.....
16	Sewerage, Roads and other Sanitary Works (19¼ lakhs) ..	19,25,000	—2,13,341 15 4
17	Sewerage and Water Works (24¾ lakhs)	24,75,000	—3,91,017 4 4
18	Certain Water Works (12¾ lakhs)	12,75,000	—74,893 14 3
19	Sewerage Works (2nd 24¾ lakhs)	24,75,000	—1,04,904 4 8
20	Construction of Quarters for Halalcores and Bigaries (13½ lakhs).	13,50,000	—36,382 11 8
21	Street Improvements (15 lakhs)	15,00,000	.....
22	Acquisition of sites for the construction of various Over-bridges in the City (30 lakhs).	30,00,000	.....
23	Miscellaneous Works (55 lakhs)	55,00,000	—2,62,417 3 3
24	Tansa Reduplication and Auxiliary Works (70 lakhs) ...	29,00,000	.....
25	Street Improvements (20 lakhs)	6,00,000	.....
		6,17,00,500	—28,12,762 6 7
26	Works executed out of Savings on different Loans ...	.....	.....
	Total Rs. ...	.....	.....

W. E. WAITE,
Chief Accountant.

No. 6-B.

Expenditure incurred against each of them, (3) the Amounts withdrawn temporarily from their (4) Invested Balances of the Loans on 31st March 1914.

Net Amount available.	Amount expended on works proper upto 31st March 1914.	Balance on 1st April 1914.	Amount advanced to meet the cost of Plague and sanctioned New works, &c., for which loans are yet to be raised.	Balances invested.
4	5	6	7	8
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
26,69,280 10 0	26,69,280 10 0	.....	.....	.....
6,00,000 0 0	6,00,000 0 0	.....	.....	.....
43,22,724 7 4	43,22,724 7 4	.....	.....	.....
1,46,96,383 7 0	1,46,96,383 7 0	.....	.....	.....
6,04,578 5 4	6,04,578 5 4	.....	.....	.....
9,81,468 8 2	9,81,468 8 2	.....	.....	.....
7,51,200 11 4	7,51,200 11 4	.....	.....	.....
2,33,533 12 10	2,33,533 12 10	.....	.....	.....
31,97,225 8 8	31,97,225 8 8	.....	.....	.....
7,33,060 3 0	7,33,060 3 0	.....	.....	.....
4,03,320 6 1	4,03,320 6 1	.....	.....	.....
20,47,750 12 5	20,47,750 12 5	.....	.....	.....
12,65,315 13 7	10,43,715 4 8	2,21,600 8 11	2,21,600 8 11	.....
24,65,146 11 2	24,62,616 5 0	2,530 6 2	2,530 6 2	.....
20,00,000 0 0	20,00,000 0 0	.....	.....	.....
17,11,658 0 8	15,56,652 2 10	1,55,005 13 10	1,55,005 13 10	.....
20,83,982 11 8	19,20,490 12 10	1,63,491 14 10	1,63,491 14 10	.....
12,00,106 1 9	11,74,755 15 2	25,350 2 7	25,350 2 7	.....
23,70,095 11 4	9,17,940 11 1	14,52,155 0 3	13,30,426 2 0	1,21,728 14 3
13,13,617 4 4	9,85,629 14 11	3,27,987 5 5	.....	3,27,987 5 5
15,00,000 0 0	15,00,000 0 0	.....	.....	.....
30,00,000 0 0	21,06,236 0 6	8,93,763 15 6	.....	8,93,763 15 6
52,37,582 12 9	44,38,469 9 8	7,99,113 3 1	.....	7,99,113 3 1
29,00,000 0 0	13,31,572 11 1	15,18,427 4 11	.....	15,18,427 4 11
6,00,000 0 0	6,00,000 0 0	.....	.....	.....
5,88,88,031 15 5	5,33,28,606 3 11	55,59,425 11 6	18,98,405 0 4	50,61,020 11 2
28,12,468 0 7	25,80,437 12 6	2,32,030 4 1	.....	2,32,030 4 1
6,17,00,500 0 0	5,59,09,044 0 5	57,91,455 15 7	18,98,405 0 4	38,93,050 15 3

P. R. CADELL,
Municipal Commissioner.

Appendix No. 6-C.

STATEMENT showing the New Works financed from Surplus Cash (Revenue) Balance pending adjustment against savings in Loan Works already completed or inclusion in a New Loan to be raised hereafter.

Serial No.	PARTICULARS OF WORK.	Amount sanctioned.	Amount of expenditure adjusted against Loan Funds.	Balance		Actual expenditure incurred up to 31st March 1914 to be adjusted hereafter.	REMARKS.
				Required for expenditure.	Not required.		
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1	Construction of a Fire Brigade Station at Elphinstone Bridge Road	69,930 0 0	62,608 13 5	———	7,321 2 7	———	Works provided for under 55 Lakhs Loan.
2	Construction of new Municipal Workshops at Foras Road ...	1,38,248 0 0	1,11,441 8 7	———	26,806 7 5	———	Works provided for under 43 Lakhs Loan.
3	Construction of two additional Chawls for bigaries at Chembur..	18,448 0 0	17,122 12 10	———	1,325 3 2	———	Works provided for under 55 Lakhs Loan.
4	Widening of Queen's Road from the Church Gate Railway Station to Wodehouse Bridge	38,359 0 0	37,944 9 0	———	414 7 0	———	Works provided for under 43 Lakhs Loan.
5	Construction of a storm-water drain from the foot of the Byculla Bridge to the Junction of Connaught and Reay Roads ...	3,86,749 0 0	3,13,995 6 5	———	72,753 9 7	———	Do.
6	Filling in the Gowalia Tank and making roads, &c., thereon ...	1,77,520 0 0	1,46,624 8 5	———	30,895 7 7	———	Do.
7	Purchase of a plot of land at Ormiston Road from the Bombay Electric Supply and Tramways Co., Ltd., for a Metal Depot ...	1,49,492 8 0	1,49,492 8 0	———	———	———	Works provided for under Advances from Surplus Loan Balances in the next year's Budget.
8	Adding to the roadway land acquired for Victoria Road ...	12,621 0 0	———	12,621 0 0	———	10,098 13 2	
9	Payment of a fee of 1000 Guineas to Mr. Midgeley Taylor for his advice in connection with the improvement of water supply in the City	18,000 0 0	18,000 0 0	———	———	———	Works provided for under 70 Lakhs Loan for Tansa Reduplication and Auxiliary Works.
10	Payment to Mr. Midgeley Taylor of a consultation fee of 250 Guineas in respect of the question of storm-water outfall at Love Grove	3,937 8 0	3,929 13 2	———	7 10 10	———	Works provided for under 2nd 24 Lakhs Loan for certain Sewerage works.
11	Payment of a fee of 100 Guineas to Mr. Midgeley Taylor for his advice in connection with the Deep Sea Sewage Outfall at Love Grove	1,575 0 0	1,568 14 0	———	6 2 0	———	Do. do.
	Carried over Rs. ...	10,14,880 0 0	8,62,728 13 10	12,621 0 0	1,39,530 2 2	10,098 13 2	

Appendix No. 6-C—*concluded.*

Serial No.	Particulars of Work.	Amount sanctioned.	Amount of expenditure adjusted against Loan Funds.	Balance.		Actual expenditure incurred up to 31st March 1914 to be adjusted hereafter.	Remarks.
				Required for expenditure.	Not required.		
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
	Brought forward Rs. ...	10,14,880 0 0	8,62,728 13 10	12,621 0 0	1,39,630 2 2	10,098 13 2	
12	Tansa Reduplication and Auxiliary Works	2,50,000 0 0	1,50,178 9 9	.....	99,821 6 3	.....	Provided for under 70 Lakhs Loan.
13	Acquisition of set-back land from Mr. J. E. Sklatwalla	10,364 5 10	.....	10,364 5 10	.....	10,364 5 10	
14	Construction of a storm-water drain in Soparibag Road ...	2,72,264 0 0	1,06,644 6 5	.....	1,65,619 9 7	.....	Provided for under 43 Lakhs Loan.
15	Acquisitions for set-backs for Street Improvements ...	2,00,000 0 0	2,00,000 0 0	.....	.....	.....	Provided for under 20 Lakhs Loan.
16	Do. do. ...	2,00,000 0 0	.....	2,00,000 0 0	.....	2,00,000 0 0	
17	Laying out a new Park at the site of the old Bhatia Baug	54,996 0 0	.....	54,996 0 0	.....	496 11	
18	Fees to Mr. M. Taylor in connection with the proposed Pumping station for the north of the Island	1,575 0 0	.....	1,575 0 0	.....	1,562 12 7	
19	Constructing a new 60' road from New Sewri Road to Parel Tank Road to join the new road under the C. I. Trust Scheme No. 31. ...	1,62,177 0 0	.....	1,62,177 0 0	.....	.....	
20	Acquisition of land at Golanji Hill Road required for a stone depôt and for the erection of a stone breaking and screening machinery...	55,500 0 0	.....	55,500 0 0	.....	.....	
21	Construction of quarters and offices for Inspectors, &c., staff of the Road Department in A Ward	15,962 0 0	.....	15,962 0 0	.....	.....	
22	Acquisition of set-backs for Street Improvements	2,00,000 0 0	.....	2,00,000 0 0	.....	21,694 4 0	
		24,37,718 5 10	13,19,551 14 0	7,13,195 5 10	4,04,971 2 0	2,44,216 4 6	

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix

STATEMENT of Outstanding Loans due by the Municipality and

	Particulars of Loans.	Rate of Interest.	Balance due on 1st April 1913.	Amount raised in 1913-14.	Total.	Amount re-paid in 1913-14.	Balance due on 31st March 1914.
	1	2	3	4	5	6	7
			Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Loan raised from Government.						
1	Vehar Water Works Debt.	4 per cent. ...	22,66,416 3 9	.....	22,66,416 3 9	23,738 11 0	22,42,677 3 9
	Loans raised from the Public.						
1	Drainage Loan of 1878 (Rs. 26,94,000)	5 per cent. ...	8,30,000 0 0	.....	8,30,000 0 0	(a) 1,34,500 0 0	6,95,500 0 0
2	The Sanitary Works Loan of 1885-86 (Rs. 44 Lakhs)	5 per cent. ...	37,39,000 0 0	.....	37,39,000 0 0	(b)	37,39,000 0 0
3	The Sanitary Works Loan of 1888 (Rs. 7 Lakhs)	5 per cent. ...	7,00,000 0 0	.....	7,00,000 0 0	(b)	7,00,000 0 0
4	The Tansa Water Works Loan (Rs. 147 Lakhs)	5 per cent. ...	1,47,00,000 0 0	.....	1,47,00,000 0 0	(b)	1,47,00,000 0 0
5	The Drainage and Water Works Loan of 1888 (Rs. 12 Lakhs) ...	5 per cent. ...	12,00,000 0 0	.....	12,00,000 0 0	(b)	12,00,000 0 0
6	The Miscellaneous Works Loan of 1888-89 for Drainage and Water Works, Markets and Roads (Rs. 10,08,500)	5 per cent. ...	10,08,500 0 0	.....	10,08,500 0 0	(b)	10,08,500 0 0
7	The Agripada House Sullage Water Connections Loan of 1889-90 of Rs. 2,48,000	5 per cent. ...	2,48,000 0 0	.....	2,48,000 0 0	(b)	2,48,000 0 0
8	The 35 Lakhs various Sanitary Works Loan of 1890-91	5 per cent. ...	35,00,000 0 0	.....	35,00,000 0 0	(b)	35,00,000 0 0
9	The Municipal Office Building Loan of 1891 (Rs. 8 Lakhs)	5 per cent. ...	8,00,000 0 0	.....	8,00,000 0 0	(b)	8,00,000 0 0
10	The Loan of 4½ Lakhs for Fire Brigade Quarters and Stations ...	4 per cent. ...	4,50,000 0 0	.....	4,50,000 0 0	(b)	4,50,000 0 0
11	The Loan of 42 Lakhs for repayment of the Balance of the 4½ per cent. Government Consolidated Loan	4 per cent. ...	42,00,000 0 0	.....	42,00,000 0 0	(b)	42,00,000 0 0
12	The Loan of 23½ Lakhs for Drainage and other Works	4 per cent. ...	23,25,000 0 0	.....	23,25,000 0 0	(b)	23,25,000 0 0
13	The Loan of 15¾ Lakhs for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works (1st instalment of Rs. 10 Lakhs)	3½ per cent. ...	15,75,000 0 0	.....	15,75,000 0 0	(b)	15,75,000 0 0
	Do. do. (2nd instalment of Rs. 5½ Lakhs)...	4 per cent. ...					
14	25 Lakhs Loan for Sewerage, Water and other Sanitary Works ...	4 per cent. ...	25,00,000 0 0	.....	25,00,000 0 0	(b)	25,00,000 0 0
15	20 Lakhs Loan for Plague purposes..	4 per cent. ...	20,00,000 0 0	.....	20,00,000 0 0	(b)	20,00,000 0 0
16	19½ Lakhs Loan for Sewerage, Roads and other Sanitary Works..	4 per cent. ...	19,25,000 0 0	.....	19,25,000 0 0	(b)	19,25,000 0 0
17	24¾ Lakhs Loan for certain Sewerage and Water Works	4 per cent. ...	24,75,000 0 0	.....	24,75,000 0 0	(b)	24,75,000 0 0
18	12½ Lakhs Loan for certain Water Works	4 per cent. ...	12,75,000 0 0	.....	12,75,000 0 0	(b)	12,75,000 0 0
19	The 2nd 24¾ Lakhs Loan for certain Sewerage Works	4 per cent. ...	24,75,000 0 0	.....	24,75,000 0 0	(b)	24,75,000 0 0
20	18¾ Lakhs Loan for the construction of quarters for Hatakhanas and Biggaries	4 per cent. ...	13,50,000 0 0	.....	13,50,000 0 0	(b)	13,50,000 0 0
21	The 15 Lakhs Loan for Street Improvements	4 per cent. ...	15,00,000 0 0	.....	15,00,000 0 0	(b)	15,00,000 0 0
22	The 30 Lakhs Loan for the Acquisition of sites for the construction of different Overbridges in the City	4 per cent. ...	30,00,000 0 0	.....	30,00,000 0 0	(b)	30,00,000 0 0
23	The 55 Lakhs Loan for Drainage Sanitary, Water and other Miscellaneous Works	4 per cent. ...	30,00,000 0 0 (1st Instalment.)	25,00,000 0 0 (2nd Instalment.)	55,00,000 0 0	.....	55,00,000 0 0
24	The 70 Lakhs Loan for re duplication of Tansa Main and other auxiliary Works, 1st Instalment of 29 Lakhs	4 per cent. ...	.....	29,00,000 0 0	29,00,000 0 0	.....	29,00,000 0 0
25	The 20 Lakhs Loan for Street Improvements 1st Instalment of Rs. 6 Lakhs	4 per cent. ...	.....	6,00,000 0 0	6,00,000 0 0	.....	6,00,000 0 0
	Total of Loans raised from the Public ...	Rs. ...	5,67,75,500 0 0	60,00,000 0 0	6,27,75,500 0 0	1,34,500 0 0	6,26,41,000 0 0
	GRAND TOTAL ...	Rs. ...	5,90,41,916 3 9	60,00,000 0 0	6,50,41,915 3 9	1,58,238 11 0	6,48,83,677 3 9

W. E. WAITE,
Chief Accountant.

No. 7.

the sums set aside as Sinking Fund at 31st March 1914.

Interest paid in 1913-14.	Total of columns Nos. 6 and 8.	Remarks.
8	9	
Rs. a. p.	Rs. a. p.	
90,237 5 0	1,13,976 0 0	(a) The amount stipulated to be paid off on 1st January 1914 was Rs. 1,17,000, which together with unpaid debentures aggregating Rs. 38,00 for the preceding years, aggregated Rs. 1,55,000 against which the debentures actually surrendered for payment up to 31st March 1914, amounted to Rs. 1,34,500. The unpaid balance thus amounts to Rs. 15,500 which is represented by the following debentures:— No. 2368 for Rs. 500 repayable on 1st January 1906 Nos. 2780 to 2788, 2804 to 2815 for Rs. 500 each, repayable on 1st January 1909, No. 2984 repayable on 1st January 1910, No. 3336, repayable on 1st January 1912, No. 3729, repayable on 1st January 1913 and Nos. 3874, 3876, 3877, 3889, 3890 and 3937 for Rs. 500 each repayable on 1st January 1914. The unpaid debentures do not carry interest beyond the due date and will be repaid from the renewed grant when the holders apply for payment.
		(b) As under the terms of these Loans the bonds cannot be repaid to the holders before the dates stipulated in the Debentures, the Sinking Fund has been invested as under:—

			Amount of Sinking Fund invested up to 31st March 1913.	Sinking Fund Instalments paid in 1913-14.	Interest accumulations invested in 1913-14.	Total.
			Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
		I.—3 per cent. Loans.				
40,300 0 0	1,74,600 0 0	41 Lakhs Sanitary Works Loan	18,50,268 6 9	41,312 8 11	32,735 10 3	19,83,311 5 4
1,88,075 0 0	7,89,675 0 0	7 Do. do. do. do.	2,95,424 13 6	8,874 5 -	12,694 4 8	3,16,493 8 1
31,775 0 0	31,775 0 0	147 Do. Tarsa Water Works Loan	16,53,136 1 9	64,720 4 9	71,791 7 2	17,89,647 13 8
		12 Do. Drainage and Water Works Loan ...	5,22,355 5 7	12,744 12 1	22,861 14 2	5,57,961 15 10
7,88,275 0 0	7,88,275 0 0	Rs. 10,08,500 Miscellaneous Works Loan	4,04,804 0 3	11,677 0 0	18,032 2 6	4,34,513 2 9
		Rs. 2,48,000 Agripada House Sullage Water Connections Loan	99,078 14 10	2,689 13 4	4,389 13 10	1,06,078 10 0
59,050 0 0	59,050 0 0	85 Lakhs Various Sanitary Works Loan	12,28,271 13 9	48,545 12 11	53,059 0 1	13,22,876 10 9
		8 Do. Municipal Office Building Loan	2,27,995 15 2	9,149 8 7	11,854 4 0	2,48,970 11 9
49,625 0 0	49,625 0 0	Total I. ...	68,28,800 7 7	1,94,204 13 11	2,77,848 8 8	67,99,853 14 2
				4,71,553 6 7		
13,350 0 0	12,350 0 0	In 5 and 4 per cent. Municipal and 4 per cent. Improvement Trust Debentures and in 3½ per cent. Govt. Paper at par lodged with the Bank of Bombay	63,28,000 0 0	4,71,500 0 0		67,99,500 0 0
1,73,000 0 0	1,73,000 0 0					
		Cash deposited with the Bank of Bombay	300 7 7	+ 53 6 7		353 14 2
40,000 0 0	40,000 0 0					
16,510 0 0	16,510 0 0	*II.—4 per cent. Loans.* (3½ *per cent. basis.*)				
		4½ Lakhs Fire Brigade Quarters and Stations Loan...	2,48,393 8 4	8,264 4 3	9,482 0 2	2,61,139 12 9
		42 Lakhs Loan for repayment of Balance of Government Consolidated Loan	21,50,556 2 11	81,669 6 11	81,847 12 9	23,18,973 6 7
1,72,590 0 0	1,72,590 0 0	28½ Lakhs Loan for Drainage and other Works ...	6,16,052 10 7	27,579 8 11	22,532 5 6	6,66,164 4 0
93,170 0 0	93,170 0 0	16½ Lakhs Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground and Certain Water Works (2nd Instalment)	1,44,652 6 1	7,294 3 3	5,534 2 7	1,57,480 11 11
		25 Lakhs Loan for Sewerage, Water, &c., Works ...	4,66,372 5 10	20,281 7 6	17,781 9 8	5,13,435 6 7
		20 Lakhs Loan for Plague purposes	10,51,446 4 5	60,607 15 4	41,367 8 7	11,62,421 12 4
		19½ Lakhs Loan for Sewerage, Roads and other Sanitary Works...	8,32,190 15 5	22,474 2 4	12,989 5 10	3,67,654 7 7
58,020 0 0	58,020 0 0	24½ Lakhs Loan for Sewerage and Water Works ...	3,04,947 12 11	28,866 5 2	12,046 10 7	3,45,860 12 8
		12½ Lakhs Loan for certain Water Works	238,238 4 1	24,599 10 0	8,662 2 9	2,51,500 0 10
99,860 0 0	99,860 0 0	2nd 24½ Lakhs Loan for Sewerage Works	The Sinking Fund of this loan is shown under a separate head below, it having been decided that the investments should be on a 3 per cent. basis.			
30,250 0 0	80,250 0 0					
75,770 0 0	75,770 0 0	Total *II* ...	55,37,910 6 7	2,99,556 10 8	2,18,243 10 0	60,59,710 11 3
				5,12,800 4 8		
97,180 0 0	97,180 0 0					
51,120 0 0	51,120 0 0	In 4 per cent. Municipal and Improvement Trust Debentures and in 3½ per cent. Govt. Paper lodged with the Bank of Bombay	55,37,668 2 0	5,13,000 0 0		60,50,668 2 0
99,520 0 0	99,520 0 0					
		Cash deposited with the Bank of Bombay	242 4 7	— 199 11 4		42 9 3
54,664 6 2	54,664 6 2					
59,930 0 0	59,930 0 0	*III.—4 per cent. Loans* (3 *per cent. basis.*)				
		2nd 24½ Lakhs Loan for Sewerage Works	2,15,099 2 5	32,795 3 11	7,076 9 2	254,970 15 6
		13½ Lakhs Loan for the construction of Quarters for Halalkhores and Bigaries	1,21,112 0 10	28,359 4 1	4,208 6 0	1,53,679 10 11
		15 Lakhs Loan for Street Improvements	62,727 11 7	19,884 11 4	2,268 13 8	84,881 4 7
1,20,154 7 0	1,20,154 7 0	20 Lakhs Loan for acquisition of sites for Overbridges	1,24,829 2 3	39,173 15 7	4,508 8 2	1,68,511 5 0
1,53,424 10 6	1,53,424 10 6	Total III ...	5,23,768 1 1	1,20,213 2 11	18,062 0 0	6,62,043 4 0
		In 3 per cent. Government Paper, etc., lodged with the Bank of Bombay	5,23,400 0 0	1,38,275 2 11 1,38,500 0 0		6,61,900 0 0
13,456 0 11	13,456 0 11					
		Cash deposited with the Bank of Bombay	368 1 1	— 224 13 4		143 4 0
211 9 0	211 9 0	*IV.—3½ per cent. Loans.*				
		15½ Lakhs Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works (1st instalment)	2,49,904 6 6	10,328 3 6	9,101 12 0	269,334 6 0
25,79,231 1 7	27,13,781 1 7					
		In 3½ per cent. Government Paper, etc., lodged with the Bank of Bombay	2,49,501 9 0	19,929 15 6 20,000 0 0		2,69,501 9 0
		Cash deposited with the Bank of Bombay	402 13 6	— 70 0 6		332 13 0
26,69,519 6 7	28,27,757 1 7	GRAND TOTAL I, II, III and IV ...	1,26,39,883 9 9	6,24,802 15 0	5,17,755 14 8	1,37,82,442 3 5

P. R. CADELL,

Municipal Commissioner.

Appendix

SINKING

STATEMENT showing the Actual Investments on account of the Sinking Fund of Different that date on the basis

NAME OF LOAN.	Amount raised.	When Repayable.	Amount of Annual Sinking Fund Instalment.	Date when Sinking Fund commenced.
1	2	3	4	5
	Rs.	Rs.	Rs.	
5 per cent. Municipal Loans.				
44 Lakhs Sanitary Works Loan ...	44,00,000	1st July 1886 7,000 1st „ 1887 4,43,000 1st „ 1890 51,000 1st „ 1895 1,60,000 1st „ 1925 37,39,000	† 41,872	..... ‡
7 Lakhs Sanitary Works Loan	7,00,000	1st February 1928 ...	8,170	1st February 1889...
147 Lakhs Tansa Water Works Loan ...	1,47,00,000	(*a*) Between 1st January 1928 and 1st Jan. 1953.	66,040	1st January 1893 ...
12 Lakhs Drainage and Water Works Loan.	12,00,000	1st January 1928 ...	(*b*) 12,616	1st January 1889 ...
Rs. 10,08,500 Miscellaneous Works Loan.	10,08,500	1st October 1928 ...	11,940	1st October 1889 ...
Rs. 2,48,000 Agripada House Sullage Water Connections Loan.	2,48,000	1st July 1929 ...	2,659	1st January 1891 ...
35 Lakhs various Sanitary Works Loan.	35,00,000	1st July 1930 ...	43,061	1st July 1891 ...
8 Lakhs Municipal Office Building Loan.	8,00,000	1st July 1931 ...	9,293	1st July 1892 ...
4 per cent. and 3½ per cent. Municipal Loans (3½ per cent. basis.)				
4½ Lakhs Fire Brigade Quarters and Stations Loan.	4,50,000	1st January 1923 ...	8,570	1st January 1894 ...
42 Lakhs Loan for the repayment of the balance of Government Consolidated Loan.	42,00,000	1st July 1923 ...	80,678	1st July 1894 ...
28½ Lakhs Loan for Drainage and other Works.	28,25,000	1st July 1935 ...	27,467	1st July 1896 ...
15¾ Lakhs Loan for Sewerage, Wari Bunder, etc., Roads, Burial Ground and certain Water Works —				
1st Instalment	10,00,000 raised at 3½ per cent.		(*c*) 11,147	
2nd Do.	5,75,000 raised at 4 per cent.	1st July 1936	7,286	1st July 1897 ...
25 Lakhs Loan for Sewerage, Water, etc., Works.	25,00,000	1st November 1939 ...	29,535	1st November 1900.
20 Lakhs Loan for Plague purposes ...	20,00,000	1st May 1920 ...	70,482	1st May 1901 ...
19½ Lakhs Loan for Sewerage Roads and other Sanitary Works.	19,25,000	1st June 1940 ...	22,698	1st June 1901 ...
24¾ Lakhs Loan for certain Sewerage and Water Works.	24,75,000	1st June 1943 ...	29,286	1st June 1904 ...
12¾ Lakhs Loan for certain Water Works.	12,75,000	1st August 1934 ...	24,698	1st August 1905 ...
4 per cent. Municipal Loans (3 per cent. basis.)				
2nd 24¾ Lakhs Loan for Sewerage Works.	24,75,000	1st August 1946 ...	32,823	1st August 1907 ...
13½ Lakhs Loan for the construction of Quarters for Halalkhores and Biggarries.	13,50,000	1st May 1938 ...	28,376	1st May 1909 ...
15 Lakhs Loan for Street Improvements.	15,00,000	1st May 1949 ...	19,893	1st May 1910 ...
30 Lakhs Loan for the acquisition of Sites, for the construction of various overbridges in the City.	30,00,000	1st May 1949 ...	39,787	1st November 1910.
				Total Rs. ...

W. E. WAITE,
Chief Accountant.

No. 7 (a).

FUND.

Loans up to 31st March 1914, compared with the amounts which should have accumulated up to of the Fixed Instalments.

Amount of Sinking Fund which should have accumulated up to 31st March 1914 at Compound Interest.	Amount actually invested up to 31st March 1914.	Amount of Interest due up to 31st March 1914 collected and invested in 1914-15.	Total of Columns 7 and 8.	REMARKS.
6	7	8	9	10
Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
20,14,690	19,83,311 5 4	32,654 8 2	20,15,965 13 6	† All the Sinking Fund Instalments were re-arranged during 1906-07 on a 3½ per cent. basis as per Corporation Resolution No. 4966 of 9th February 1905.
3,21,615	3,16,493 8 1	4,630 2 10	3,21,123 10 11	* As Rs. 5,61,000 of this Loan were paid off by 31st December 1895, leaving a balance of Rs. 37,39,000 repayable on 1st July 1925, and as the Invested Sinking Fund on 31st March 1895, amounted to Rs. 4,81,047-15-5 the amount of the Annual Sinking Fund Instalment was reduced from Rs. 37,000 to Rs. 30,550 from 1st January 1897.
18,15,685	17,89,647 13 8	26,967 6 0	18,16,615 3 8	
5,66,955	5,57,961 15 10	8,736 15 5	5,66,698 15 3	(a) Rs. 2,00,000 repayable on 1-1-1926.
4,40,843	4,34,513 2 9	6,913 4 6	4,41,426 7 3	,, 52,91,500 ,, ,, 1-1-1933.
1,07,785	1,06,078 10 0	1,649 9 4	1,07,728 3 4	,, 25,08,500 ,, ,, 1-1-1943.
				,, 17,00,000 ,, ,, 1-1-1946.
				,, 19,00,400 ,, ,, 1-1-1948.
				,, 43,00,000 ,, ,, 1-1-1952.
				(b) In January 1889 Rs. 10,000 were invested and in subsequent years Rs. 11,000.
13,43,089	13,22,876 10 9	19,201 10 11	13,42,078 5 8	
2,93,079	2,88,970 11 9	4,432 10 10	2,93,403 6 7	
2,63,525	2,61,159 12 9	2,949 4 7	2,64,109 1 4	
23,40,993	23,13,973 6 7	25,318 0 4	23,39,291 6 11	
6,74,558	6,67,164 4 0	7,213 12 8	6,74,378 0 8	
2,72,249	2,69,834 6 0	1,659 7 4	2,71,493 13 4	(c) In 1897-98 Rs 18,875 were invested in 3½ per cent. Government Paper.
1,59,139	1,57,480 11 11	2,605 12 0	1,60,086 7 11	
5,19,289	5,13,435 3 7	6,455 11 11	5,19,891 2 6	
11,74,683	11,62,421 12 4	14,265 7 0	11,76,687 3 4	
3,71,538	3,67,654 7 7	4,430 5 5	3,72,084 13 0	
3,48,908	3,45,860 12 8	3,963 10 7	3,49,824 7 3	
2,63,203	2,61,560 0 10	1,887 11 6	2,63,447 12 4	
2,56,533	2,54,970 15 6	1,748 6 0	2,56,719 5 6	
1,54,795	1,53,679 10 11	1,154 14 8	1,54,834 9 7	
85,513	84,881 4 7	637 14 4	85,519 2 11	
1,68,534	1,68,511 5 0	1,266 6 4	1,69,777 11 4	
1,39,55,101	1,37,82,442 3 5	1,80,743 0 8	1,39,63,185 4 1	

Excess accumulations of Rs. 8,084-4-1 as under:—

	Rs.	a.	p.
	1,39,63,185	4	1
	1,39,55,101	0	0
Rs.	8,084	4	1

P. R. CADELL,
Municipal Commissioner.

Appendix

STATEMENT showing the Interest outstanding on 1st April 1913 on the different of Bombay during that year, and the

	Name of each Loan.	Dates when raised.	AUTHORITY. Corporation Resolution.	AUTHORITY. Government Resolution.
	5 per cent. Loans.			
1	Drainage Loan of 1878 (Rs. 26,94,000) ...	1st November and 1st December 1878.	No. 1296 10-9-78.	No. 2951 23-9-78.
2	The Sanitary Works Loan of 1885-86 (Rs. 44,00,000).	Between 5th May 1885 and 30th March 1886.	Nos. 5021 8-12-81, 428 16-5-83 and 905 12-3-82	Nos. 2869 17-7-82, 460 4-2-84 and 384 2-2-83, 124 17-4-85. 3771 19-10-83,
3	The Sanitary Works Loan of 1888 (Rs. 7,00,000).	1st February 1888	No. 991 13-10-86.	No. 1427 4-5-88.
4	The Tansa Water Works Loan (Rs. 1,47,09,000).	Between 5th June 1886 and 24th December 1891.	Nos. 1812 13-11-89 and 345 9-4-91.	Nos. 561 12-2-90, 2876 21-9-97, 3392 23-8-90, and 1008 16-3-86, 3978 22-7-88, 8262-63 1549-91. 1930 31-5-86 4198 8-10-89,
5	The Drainage and Water Works Loan of 1888 (Rs. 12,00,000).	1st January and 1st July 1888 ...	Nos. 894 20-7-87 and 1145 8-9-87.	Nos. 873 16-3-88.
6	The Miscellaneous Works Loan, 1888-89 (Drainage and Water Works, Markets and Roads) (Rs. 10,08,500.)	Between 1st November 1888 and 1st July 1889.	No. 29 4-4-88.	Nos. 4927 7-9-88, 3280 19-9-89, 4138 24-11-89
7	The Agripada House Sullage and Water Connections Loan of 1889-90 (Rs. 2,48,000).	Between 1st January and 1st July 1890.	No. 4688. 8-10-86.	Nos. 6547 28-12-89 and 17 3-1-90.
8	The Various Sanitary Works Loan of 1890-91 (Rs. 35,00,000).	Between 25th September 1890 and 1st January 1892.	Nos. 29 4-4-88, 572 13-3-89, 433 17-4-90 and 5293 19-11-88, 5152 25-11-89, and 5605 7-1-89, 6225 23-1-90, 1433 22-3-90.	No. 3392 23-8-90.
9	The Municipal Building Loan of 1891 (Rs. 8,00,000).	24th December 1891	No. 11551 9-2-91.	No. 3362 15-9-91.
	4 per cent. Loans.			
10	The Loan for Fire Brigade Quarters and Stations (Rs. 4,50,000).	23rd December 1892, 30th November and 1st December 1893.	No. 5144 8-3-92.	Nos. 1022 29-3-92, 3145 6-9-92. and 2501 14-6-92, 2164 25-6-92
11	The Loan for repayment of the balance of the 4½ per cent. Government Consolidated Loan (Rs. 42,00,000).	28th and 29th June 1893 ...	No. 13956 22-3-93.	No. 1589 6-6-93.
12	The Loan for Drainage and other Works (Rs. 23,25,000).	12th and 31st January 1894 and 11th and 15th July 1895.	No. 6222 28-9-93.	Nos. 309 3-3-94, and 3764 3-10-94.
*13	The Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground, and certain Water Works (Rs. 15,75,000 of which the 2nd instalment of Rs. 5,75,000 was raised at 4 per cent.).	17th July 1899	Nos. 804 12-4-94, 8976 7-11-95, 14435 25-3-97. 13897 7-3-95, 12034/5 4-2-97, and 8992 7-11-95, and	Nos. 3501 22-8-95, 2048 23-6-99. 383 22-2-96, 2320 3-6-99
14	The Loan for Sewerage and other Sanitary Works (Rs. 25,00,000).	17th and 18th July 1899 ...	Nos. 8976 7-11-95, 14435 25-3-97. 12034/5 4-2-97, and	Nos. 3341 A 28-8-97, Telegram 26-7-98 and 2320 3-6-99.
15	The Loan for Plague purposes (Rs. 20,00,000).	6 lakhs raised between 15th July and 20th Dec. 1899, 6 lakhs raised in Nov. 1900 and 8 lakhs raised between 12th Aug. and 9th Oct. 1902.	No. 8099 6-12-97.	Nos. 4960 5-9-98 and 2320 3-6-99.
16	The Loan for Sewerage, Roads and other Sanitary Works (Rs. 19,25,000).	18th and 19th July 1899 and September 1900.	No. 628 18-4-98.	Nos. 4960 5-9-98. and 2540 16-6-99.
17	The Loan for certain Sewerage and Water Works (Rs. 24,75,000).	6 lakhs raised between 15th June and 1st July 1901, 11 lakhs raised between 23rd Aug. and 31st October 1901, 4 lakhs raised between 19th Aug. and 28th Oct. 1902, and 3¾ lakhs raised on 9th Sep. 1903.	No 1956 14-8-1900	No. 2427 15-6-1901.
18	The Loan for certain Water Works (Rs. 12,75,000).	1st September 1904	No. 244 23-4-03.	No. 4416 22-8-04.
19	The 2nd 24½ Lakhs Loan for certain Sewerage Works.	Rs. 12 lakhs raised on 3rd September 1905 and Rs. 12½ lakhs on 9th September 1907.		No. 4004 21-7-05 and Telegram 31-8-05. No. 4792 5-8-07 and Telegram 31-7-07.
20	The 13½ Lakhs Loan for the construction of quarters for Halalkhores and Biggaries.	7th August 1908	No. 2204 of 29-6-08	No. 3447 9-5-08.
21	The 15 Lakhs Loan for Street Improvements.	29th July 1909	No. 7558 of 20-8-07	No. 5178 17-8-08.
22	The 30 Lakhs Loan for the acquisition of sites for the construction of various over-bridges in the City.	29th July 1909, and 10th August 1910	No. 181 of 8-4-09	No. 3362 28-7-09.
23	The 55 Lakhs Loan for Drainage, Sanitary, Water and other Miscellaneous works.	7th and 10th August and 1st November 1911 and 1st August 1913.	No. 6426 of 31-1-10	No. 4650 1-8-11 and Telegram No. 4686-A. 28-7-11
24	1st Instalment of 29 Lakhs of the 70 Lakhs Loan for the re-duplication of the Tansa Main and other Auxiliary Works.	9th September 1913	No. 4051 of 14-10-12	No. 6159 21-8-13 and Telegram 18-8-13.
25	1st Instalment of 6 Lakhs of the 20 Lakhs Loan for Street Improvement.	Do.	No. 4047 of 14-10-12	Do.
	3½ per cent. Loan.			
*13	The Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works (Rs. 15,75,000, of which the 1st instalment of Rs. 10 lakhs was raised at 3½ per cent.)	1st December 1896	(*Vide* Reso. Nos. against Loan No. 13.)	(*Vide* Reso. Nos. against Loan No. 13) ... ...

W. E. WAITE,
Chief Accountant.

No. 8.

Loans, the amounts payable for the year 1913-1914, the amounts paid by the Bank Balances outstanding on 31st March 1914.

Date when Loan is repayable.	Interest outstanding on 1st April 1913.	Interest payable in 1913-1914.	Total Interest due.	*Deduct*—Interest paid by the Bank of Bombay.	Outstanding Balance on 31st March 1914.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1st January 1919	14,200 0 0	39,850 0 0	54,050 0 0	40,300 0 0	13,750 0 0
1st July 1925	23,512 8 0	1,86,950 0 0	2,10,462 8 0	1,89,075 0 0	21,387 8 0
1st February 1928	5,875 0 0	35,000 0 0	40,875 0 0	31,775 0 0	9,100 0 0
Between 1st January 1928 and 1st January 1953.	29,612 8 0	7,35,000 0 0	7,64,612 8 0	7,38,275 0 0	26,337 8 0
1st January 1928	4,950 0 0	60,000 0 0	64,950 0 0	59,950 0 0	5,000 0 0
1st October 1928	1,825 0 0	50,425 0 0	52,250 0 0	49,625 0 0	2,625 0 0
1st July 1929	87 8 0	12,400 0 0	12,487 8 0	12,350 0 0	87 8 0
1st July 1930	15,762 8 0	1,75,000 0 0	1,90,762 8 0	1,73,000 0 0	17,762 8 0
1st July 1931	.....	40,000 0 0	40,000 0 0	40,000 0 0	.....
1st January 1933	2,390 0 0	18,000 0 0	20,390 0 0	16,510 0 0	3,880 0 0
1st July 1933	21,800 0 0	1,68,000 0 0	1,89,800 0 0	1,72,590 0 0	17,210 0 0
1st July 1935	9,620 0 0	93,000 0 0	1,02,020 0 0	93,170 0 0	8,850 0 0
1st July 1936	500 0 0	23,000 0 0	23,500 0 0	23,090 0 0	410 0 0
1st November 1939	570 0 0	1,00,000 0 0	1,00,570 0 0	99,860 0 0	710 0 0
1st May 1920	6,460 0 0	80,000 0 0	86,460 0 0	80,250 0 0	6,210 0 0
1st June 1940	6,370 0 0	77,000 0 0	83,370 0 0	75,770 0 0	7,600 0 0
1st June 1943	5,010 0 0	99,000 0 0	1,04,010 0 0	97,180 0 0	6,830 0 0
1st August 1934	2,240 0 0	51,000 0 0	53,240 0 0	51,120 0 0	2,120 0 0
1st August 1946	1,510 0 0	99,000 0 0	1,00,510 0 0	99,520 0 0	990 0 0
1st May 1938	3,744 6 3	54,000 0 0	57,744 6 3	54,664 6 2	3,080 0 0†
1st May 1949	2,400 0 0	60,000 0 0	62,400 0 0	59,930 0 0	2,470 0 0
1st May 1949	4,901 11 10	1,20,000 0 0	1,24,901 11 10	1,20,154 7 0	4,747 4 10
1st June 1942	540 0 0	1,58,424 10 6	1,58,964 10 6	1,58,424 10 6	540 0 0
1st June 1954	.....	18,106 2 9	18,106 2 9	13,456 0 11	4,650 1 10
1st May 1955	.....	1,261 2 3	1,261 2 3	211 9 0	1,049 9 3
1st July 1936	175 0 0	35,000 0 0	35,175 0 0	34,930 0 0	245 0 0
Total Rs. ...	1,53,406 2 1	25,84,416 15 6	27,37,823 1 7	25,79,281 1 7	1,58,541 15 11† 0 0 1

† Difference arising on account of interest for broken period on small holdings.

P. R. CADELL,
Municipal Commissioner.

Appendix No. 9.

STATEMENT showing Works executed out of Loan Funds during 1913-1914.

Particulars.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—BUILDINGS and SANITARY STRUCTURES—			
18½ LAKHS LOAN—			
Construction of chawls, &c., for Halalkhores at Valpakhadi (Mazagon)	8,478 5 10		
Construction of semi-permanent huts for Halalkhores at Tardeo Flats	34 11 6		
Construction of Sankli Tank Bullock Hospital with residential quarters for Inspector and Shalotri	43 14 2		
Construction of chawls for Bigaries at Arthur Road... ...	29,853 10 3		
Construction of stables and chawls for B Ward at Jail Road	83,959 2 6		
Construction of a stable for E Ward, West, at Kamathipura...	15,385 4 4		
Construction of stables and chawls for bigaries and bullocks of D Ward at Annesley Road	359 9 11		
		1,33,120 16 3	
55 LAKHS LOAN—			
Construction of 25 bathing places in the City...	21,419 15 10		
Building a new Office at Dadar for the use of the Assessment Department, F and G Ward Offices, and converting the existing Ward Office into a godown and providing latrines for the workmen	3,340 2 4		
Construction of A Ward Offices for the different branches of the Engineer's Department at Mint Road	872 3 0		
Purchase of about 4,030 square yards of land at the junction of Bapty Road and Falkland Road belonging to the tramway authorities	1,223 6 0		
Construction of Buildings for Primary Schools	1,53,609 5 0		
Making alterations in the three permanent Wards of the Arthur Road Hospital, and in gas and other lighting arrangements in the compound, Wards, &c, in the Arthur Road Hospital	717 3 3		
Construction of a Fire Brigade Station at Elphinstone Bridge Road	12,279 6 4		
Construction of two additional chawls for biggaries at Chembur	17,094 1 0		
		2,20,555 10 9	
SAVINGS ON DIFFERENT LOANS—			
Providing latrines and urinals at different places		1,980 12 3	
ADVANCES FROM SURPLUS BALANCES—			
Construction of New Municipal Workshops at Foras Road ...	1,27,976 12 1		
Construction of new Ward offices at Babula Tank for the Assessment and Health Departments...	48 6 0		
Providing bungalows for engineers and quarters for servants and engine drivers at Love Grove Pumping Station ...	1,437 8 0		
Construction of 25 bathing places in the City	*Cr.* 20,905 12 3		
Building a new Office at Dadar for the use of the Assessment Department, F and G Ward Offices, and converting the the existing Ward Office into a godown and providing latrines for the workmen ...€	*Cr.* 3,340 2 4		
Construction of A Ward Offices for the different branches of the Engineer's Department at Mint Road	*Cr.* 872 3 0		
Purchase of about 4,030 square yards of land at the junction of Bapty Road and Falkland Road belonging to the tramway authorities	*Cr.* 1,223 6 0		
Construction of Buildings for Primary Schools	*Cr.* 1,22,720 14 4		
Making alterations in the three permanent Wards of the Arthur Road Hospital, and in gas and other lighting arrangements in the compound, Wards, &c., in the Arthur Road Hospital	*Cr.* 717 3 3		
Construction of a Fire Brigade Station at Elphinstone Bridge Road	*Cr.* 12,279 6 4		
Construction of two additional chawls for biggaries at Chembur	*Cr.* 17,094 1 0		
		Cr. 48,299 6 5	
A—Buildings and Sanitary Structures—Total Rs. ...			3,06,357 11 3
B.—ROADS AND OVERBRIDGES—			
15¾ LAKHS LOAN—			
Warl Bunder Road		80,329 3 3	
30 LAKHS LOAN—			
Overbridge at Currey Road, G. I. P. Railway	65,471 15 10		
Do. at Arthur Road do.	35 4 3		
Do. at Clerk Road do.	16,242 6 2		
Do. at Clerk Road, B. B. & C. I. Railway... ...	10,459 8 8		
Do. at Elphinstone Road, B. B. & C. I. P. Railways.	19,916 15 7		
Do. at DeLisle Road	1,13,796 8 1		
Establishment charges for various Overbridges	9,606 13 4		
		2,35,463 7 11	
55 LAKHS LOAN—			
Acquisition of Land at Carel	2,641 11 11		
Widening of Cruickshank Road and Improvement of the Corner of Cruickshank and Esplanade Roads	7,959 9 1		
		10,601 5 0	
20 LAKHS LOAN—			
Street Improvement in different places...		6,00,000 0 0	
B—Roads and Overbridges—Carried over ... Rs.		9,26,394 5 2	
Carried over ... Rs.			3,06,357 11 3

Appendix No. 9—*continued.*

Particulars.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward ... Rs.			3,06,357 11 8
B.—Roads and Overbridges—*contd.* and brought forward ... Rs.		9,26,894 5 2	
ADVANCES FROM SURPLUS BALANCES—			
Street Improvements in different places	*Cr.* 4,00,000 0 0		
New Streets at Cavel	*Cr* 2,641 11 11		
Construction of a road from the B. B. & C. I. Railway Matunga Station Westward to Mahim including Storm-water drains	85,742 13 1		
Construction of a 60 ft. road along Tulsi pipe line from DeLisle Road to Dadar Road, including Storm-water drains and other roads	2 311 10 1		
Improvement of Worli road	26,325 3 7		
Widening of Queen's Road from the Church Gate Railway Station to Wodehouse Bridge	37,944 9 0		
Purchase of a plot of land at Ormiston Road from the B. E S. & T. Co. for a metal Depôt	1,49,492 8 0		
Widening of Cruickshank Road and Improvement of the Corner of Cruickshank and Esplanade Roads	*Cr.* 7,969 9 1		
		Cr. 1,08,784 9 8	
ADVANCES TO BE ADJUSTED AGAINST RECOVERIES FROM THE CITY IMPROVEMENT TRUST—			
At Piru Lane		131 5 0	
B.—Roads and Overbridges—Total Rs.			8,17,741 9 11
C.—DRAINAGE—			
21¾ LAKHS LOAN—			
Completion of house drainage connections in different parts of the City		35,766 5 0	
SECOND 24¾ LAKHS LOAN—			
Construction of a new outfall at Worli Point	90,027 0 0		
Sewerage of the Elphinstone Reclamation	68,486 12 10		
		1,58,513 12 10	
75 LAKHS LOAN—			
Provision of Ejectors in the Colaba Sub District	23,660 2 4		
Measures for relieving the Surcharging of Sewers	5,99,620 6 2		
Construction of a Storm-water drain from the junction of Reay and Connaught Roads to the Harbour near Lakri Bunder	4,02,332 12 8		
Construction of an office for the Drainage Staff and quarters and an office for the Head Plumber at Babula Tank and providing fencing round the Drainage Chowkey and metalling the yard	674 11 10		
Extension of Low Level Channel No. 2 from DeLisle Road to Dadar Road	21,409 14 4		
		10,47,697 15 4	
SAVINGS ON DIFFERENT LOANS—			
Giving Street Connections to Storm-water drains in the City	3,605 2 0		
Constructing a Road side drain and providing a covered storm-water drain at Girgaum Back Road	309 15 0		
Laying a 6" pipe drain in the compound of premises No. 14-20 to the East of Cumballa Hotel Lane	105 12 0		
Filling in open Side Drains on both the sides and providing covered storm-water drains with water tables and water gullies in portions of 1st to 5th Khetwadi Lanes and Main Roads	6,548 8 5		
Laying a 6" pipe drain on the west of Dadar Road	258 10 8		
Laying a 9" pipe sewer between Charni Road and Khetwadi 11th Lane	1,639 3 1		
		12,467 8 2	
ADVANCES FROM SURPLUS BALANCES—			
Extension of Low Level Channel No. 2 from DeLisle Road to Dadar Road	*Cr.* 20,495 6 6		
Construction of a S. W. Drain from the junction of Reay and Connaught Roads to the Harbour near Lakri Bunder...	*Cr.* 4,02,332 12 8		
Measures for relieving the surcharging of sewers	*Cr.* 3,33,894 15 6		
Provision of Ejectors in the Colaba Sub-District	*Cr.* 9,998 15 6		
Construction of a storm-water drain from the foot of Byculla Bridge to the Junction of Connaught and Reay Roads ...	3,14,019 3 9		
Construction of a storm-water drain in Suparibagh Road	2,12,414 13 2		
Construction of a storm-water drain from the Junction of Connaught and Reay Roads to Kalachowki and Suparibagh Roads	4,83,467 13 8		
Construction of an office for the Drainage Staff and quarters and an office for the Head Plumber at Babula Tank and providing fencing round the Drainage Chowki and metalling the yard	*Cr.* 674 11 10		
		2,42,505 0 7	
C—Drainage—Total Rs. ...			14,91,950 4 11
D.—WATER WORKS—			
24¾ LAKHS LOAN—			
Distribution mains in Tardeo and Gamdevi Roads	113 15 7		
9" and 10" Pipes from Grant Road to Kamatipura	*Cr.* 20 13 6		
		93 2 1	
D—Water Works—Carried over Rs. ...		93 2 1	
Carried over Rs. ...			26,16,043 1 5

Appendix No. 9—*concluded.*

Particulars.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			26,16,019 1 6
'D—Water Works—*contd.* and brought forward Rs....		93 2 1	
12½ LAKHS LOAN—			
Replacement of the Vehar main for the whole distance between Vehar and Coorla, north of Coorla...		2,16,517 13 3	
55 LAKHS LOAN—			
Laying water mains in B Ward	29,141 4 4		
Laying water mains in A Ward	1,08,053 0 0		
Construction of quarters for Water Works Office Staff on the Babula Tank Site	340 0 0		
Laying an additional 9" main on the 24" main somewhat north of Government House, Parel, to join the 4" main in Lady Jamsetji Road	121 8 0		
		1,37,625 12 4	
70 LAKHS LOAN—			
Tansa Reduplication and Auxiliary works—			
Duplicating Syphons Nos. 1 to 7	2,82,474 13 9		
Do. Syphon No. 8	6,05,623 6 3		
Raising Tansa Dam	2,14,022 10 9		
Distributing mains in the City	2,52,456 9 11		
General expenses	26,995 2 5		
		18,81,572 11 1	
SAVINGS ON DIFFERENT LOANS—			
Replacing 32" Vehar pipes for 1½ miles by 48" C. I. Main north of Coorla		*Cr.* 6,489 8 9	
ADVANCES FROM SURPLUS BALANCES—			
Fixing Deacon's Meters on the distributing mains	2,134 7 1		
Removing and relaying the 32" Vehar main South of Coorla	*Cr.* 21,261 7 9		
Laying a 6" service main in Sandhurst Road	7,115 14 4		
Substitution of an Electrically driven Turbine pump for plunger pumps and construction of a water tower on Malabar Hill Reservoir	16,685 11 3		
Laying water mains in A Ward	*Cr.* 1,07,384 10 0		
Do. do. B "	*Cr.* 28,040 13 11		
Extending 14" main in Parel Road	11,909 2 8		
Laying an additional 9" main on 24" main somewhat north of Government House Parel to join the 4" main in Lady Jamsetji Road	*Cr.* 121 8 0		
Tansa Reduplication and Auxiliary works—			
Reservoir at Ghatkoper	34 1 0		
		Cr. 1,18,929 3 4	
D—Water Works—Total Rs. ...			16,10,990 10 8
E—CEMETERIES—			
55 LAKHS LOAN—			
Providing a Burial Ground for Mahomedans in F and G Wards at Antop Hill, Matunga	568 7 4		
Extension of the Sewri Cemetery	19,457 6 0		
		20,025 13 4	
SAVINGS ON DIFFERENT LOANS—			
Providing a boundary wall at Haines Road Cemetery ...	8,546 7 2		
Filling in a portion of Haines Road Cemetery...	4,989 12 0		
		13,536 3 2	
ADVANCES FROM SURPLUS BALANCES—			
Extension of the Sewri Cemetery	*Cr.* 19,209 15 2		
Providing a Burial Ground for Mahomedans in F and G Wards at Antop Hill, Matunga	*Cr.* 568 7 4		
		Cr. 19,838 6 6	
E—Cemeteries—Total Rs. ...			13,723 10 0
G—MISCELLANEOUS—			
55 LAKHS LOAN—			
Filling in the Babula Tank with debris		1,963 0 11	
ADVANCES FROM SURPLUS BALANCES—			
Filling in Gowalia Tank and making Roads, &c., thereon ...	1,47,311 9 5		
Filling in the Babula Tank with debris	*Cr.* 1,963 0 11		
		1,45,348 8 6	
'G—Miscellaneous—Total Rs....			1,47,311 9 5
Loan Works, Grand Total Rs. ...			48,87,474 15 7

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix No. 9-A.

STATEMENT of Expenditure on Plague Operations for 1913-1914 contrasted with the figures for 1912-1913.

Particulars.	Actual Expenditure for 1912-13.	Actual Expenditure for 1913-14.
	Rs. a. p.	Rs. a. p.
Free Medical Relief—		
Hospitals—		
I. Maratha Hospital	19,886 11 7	22,968 9 11
Maintenance of Camps	10,010 15 2	3,963 8 8
Net Municipal Contribution to Private Health Camps, &c.	3,818 3 0	2,303 7 8
Cutting off service pipes	151 3 3	.....
Fees for notification of plague cases	269 0 0	529 0 0
General supervision	15,056 14 6	14,928 3 5
Disinfection	38,271 15 0	29,431 14 10
Registration	10,812 10 10	10,291 0 5
Rat destruction	44,017 7 9	40,465 15 6
Inoculation	406 0 6	70 6 9
Discretional Relief	227 15 6	452 4 6
Local Allowance	1,408 2 5	.....
Grain Compensation	3,174 9 8	.....
Overcrowding Inspectors	770 0 0	.....
Constructing semi-permanent quarters at Maratha Hospital	1,322 5 9	.....
	1,48,599 2 11	1,25,409 6 6
Less—Miscellaneous Receipts on account of ground-rent, &c.	—836 2 9	—727 5 9
Total... Rs.	1,47,763 0 2	1,24,682 0 9

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix

STATEMENT showing the Liabilities and Assets

Liabilities.			Amount.	Total.	Grand Total.
			Rs.	Rs.	Rs. a. p.
I.—Debt.					
Due to Government—					
Vehar Debt					22,42,677 8 9
Due to the Public—		Original.	Repaid.	Balance.	
5 per cent. Loans.		Rs.			
Drainage Loan of 1878		26,94,000	19,98,500	6,95,500	
Sanitary Works Loan of 1882-86		44,00,000	6,61,000	37,39,000	
Sanitary Works Loan of 1888		7,00,000	.....	7,00,000	
12 Lakhs Drainage and Water Works Loan		12,00,000	.....	12,00,000	
Rs. 10,08,500 Miscellaneous Works Loan		10,08,500	.....	10,08,500	
Rs. 2,48,000 Agripada House Sullage Water Connection Loan ...		2,48,000	.....	2,48,000	
35 Lakhs Various Sanitary Works Loan		35,00,000	.....	35,00,000	
147 Lakhs Tansa Water Works Loans		1,47,00,000	.....	1,47,00,000	
8 Lakhs Municipal Office Building Loan		8,00,000	.....	8,00,000	
Total 5 per cent. Loans ...		2,92,50,500	26,59,500	2,65,91,000	
4 per cent. Loans.					
4½ Lakhs Loan for Fire Brigade Quarters and Stations		4,50,000	.....	4,50,000	
42 Lakhs Loan for Repayment of Balance of Government Consolidated Loan		42,00,000	.....	42,00,000	
23¼ Lakhs Loan for the construction of Drainage, Water Works and other Works		23,25,000	.....	23,25,000	
15¾ Lakhs Loan for the construction of Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works (2nd Instalment)		5,75,000	.....	5,75,000	
25 Lakhs Loan for Sewerage, Water and other Sanitary Works ...		25,00,000	.....	25,00,000	
19¼ Lakhs Loan for Sewerage, Roads and other Sanitary Works ...		19,25,000	.....	19,25,000	
20 Lakhs Loan for Plague Expenses		20,00,000	.....	20,00,000	
24¾ Lakhs Loan for Sewerage and Water Works		24,75,000	.....	24,75,000	
12¾ Lakhs Loan for certain Water Works		12,75,000	.....	12,75,000	
Second 24¾ Lakhs Loan for certain Sewerage Works		24,75,000	.....	24,75,000	
13½ Lakhs Loan for the construction of Quarters for Halalkhores and Beggaries		13,50,000	.....	13,50,000	
15 Lakhs Loan for Street Improvements...		15,00,000	.....	15,00,000	
30 Lakhs Loan for the construction of Overbridges in the City ...		30,00,000	.....	30,00,000	
55 Lakhs Loan for Miscellaneous Works		55,00,000	.....	55,00,000	
70 Lakhs Loan for Tansa Reduplication and Auxiliary Works (1st Instalment of 29 Lakhs)		29,00,000	.....	29,00,000	
20 Lakhs Loan for Street Improvements (1st Instalment of 6 Lakhs).		6,00,000	.....	6,00,000	
Total 4 per cent. Loans ...		3,50,50,000	.....	3,50,50,000	
Debt due to the Public—Carried over ... Rs. ...		6,43,00,500	26,59,500	6,16,41,000	
Do. Govt. do.			.....	.....	22,42,677 8 9

No. 10.

of the Bombay Municipality at 31st March 1914.

Assets.	Amount.	Total.	Grand Total.
	Rs a. p.	Rs. a. p.	Rs. a. p.
I. Cash Balance at 31st March 1914 in the Office and Bank Treasuries—			2,70,679 1 6
II. Advances Recoverable.—			
a, Cash advanced to Municipal Officers		24,301 11 2	
b, Inter-departmental Charges—			
Workshops (Private and Departmental Works)	23,691 9 1		
Engineer's Department (Private Works)	36,719 11 0		
Engineer's Department (Departmental Works)	11,294 11 10		
		71,705 15 11	
c, Advances to Contractors		21,812 2 2	
d, Miscellaneous		49,470 11 9	
e, New Works to be subsequently provided for under a new loan to be raised, *vide* Appendix No. 6 C.		2,44,216 4 6	
f, Advances to the Chief Auditor and Accountant, B. B. & C. I. Railway		8,007 0 0	
			4,19,513 13 6

III. Investments.—

a. **Surplus Funds Deposits—Paper.**

	Face value.	Actual cost.	Deposits—Current account & Fixed deposits.		
	Rs. a. p.	Rs. a. p.	Rs. a. p.		
4 per cent. Port Trust Bonds	2,43,500 0 0	2,50,442 3 0			
4 per cent. Municipal Debentures	21,25,000 0 0	21,24,851 14 0			
4 per cent. Bombay Improvement Trust Debentures	1,86,500 0 0	1,86,588 2 0			
3½ per cent. Government Paper	1,00,500 0 0	1,01,218 8 0			
3 per cent. Government Paper ...	24,100 0 0	20,846 8 0			
4 per cent. Sterling Bonds of the Bombay Improvement Trust	£ 25,000 0 0	3,55,365 8 8			
Total ...	27,69,400 0 0				
	£25,000 0 0	31,22,457 11 8	23,35,396 15 6	58,07,764 11 2	‡ 58,07,764 11 2
b. **Loan Funds.—**					
4 per cent. Municipal Debentures	1,98,500 0 0	1,98,495 0 0			
3½ per cent. Government Paper	88,500 0 0	86,431 4 0			
Total Loan Funds ...	2,87,000 0 0	2,84,926 4 0	36,08,124 11 3	38,93,050 15 3	(*a*) § 38,93,050 15 3
c **Sinking Funds—**			Cash Deposits.		
5 *per cent. Municipal Loans* —					
5 per cent. Municipal Debentures	34,66,000 0 0	34,66,000 0 0			
4 per cent. Municipal Debentures .. .	7,52,500 0 0	7,52,500 0 0			
4 per cent. Bombay Improvement Trust Debentures	5,97,500 0 0	5,97,500 0 0			
3½ per cent. Government Paper	19,83,500 0 0	19,83,500 0 0			
Total ..	67,99,500 0 0	67,99,500 0 0	355 14 2	67,99,853 14 2	
4 *per cent. Municipal Loans*—(3½ *per cent. Basis*).—					
1 per cent. Municipal Debentures	18,35,000 0 0	18,34,816 6 9			
4 per cent. Bombay Improvement Trust Debentures	23,39,500 0 0	23,39,551 11 3			
3½ per cent. Government Paper	18,76,200 0 0	18,76,200 0 0			
Total ..	60,50,800 0 0	60,50,668 2 0	42 9 3	60,50,710 11 3	
4 *per cent. Municipal Loans*—(3 *per cent. Basis.*)—					
3½ per cent. Government Paper	99,500 0 0	99,500 0 0			
3 per cent Government Paper	4,75,900 0 0	4,75,900 0 0			
4 per cent. Bombay Improvement Trust Debentures	86,500 0 0	86,500 0 0			
Total ...	6,61,900 0 0	6,61,900 0 0	143 4 0	6,62,043 4 0	
3½ *per cent. Loans.*—					
4 per cent. Municipal Debentures	24,000 0 0	24,000 0 0			
4 per cent. Bombay Improvement Trust Debentures.	30,000 0 0	30,000 0 0			
3½ per cent. Government Paper	2,18,300 0 0	2,15,501 9 0			
Total ...	2,72,300 0 0	2,69,501 9 0	332 13 0	2,69,834 6 0	
Total Sinking Funds ...	1,37,34,500 0 0	1,37,31,369 11 0	872 8 5	1,37,32,242 3 5	*1,37,32,242 3 5
d. **Special Funds.—**					
MUNICIPAL BUILDINGS FIRE INSURANCE FUND					
5 per cent. Municipal Debentures	27,000 0 0	27,000 0 0			
4 per cent. Municipal Debentures - ..	53,000 0 0	52,617 13 0			
4 per cent. Bombay Improvement Trust Debentures	92,000 0 0	93,797 3 0			
4 per cent. Port Trust Bonds	1,000 0 0	1,020 10 0			
3½ per cent. Government Paper	8,000 0 0	8,192 13 0			
Total ...	1,81,000 0 0	1,82,628 7 0	228 12 10	1,82,857 3 10	
Special Funds carried over Rs....	1,81,000 0 0	1,82,628 7 0	228 12 10	1,82,857 3 10	
Carried over Rupees ...	.....	.....	.....	.....	2,34,83,257 13 10 6,90,292 15 0

(*a*) Of this Rs. 14,88,842-0-8 belong to the Water Works Account. * Of this Rs. 52,08,745 belong to the Water Works Account.

† This is exclusive of Rs. 7,132-8-9 being the amount of net interest on Improvement Trust Sterling Bonds for £ 25,000 credited in the Bank's Pass Book on 14th March 1914, i.e., in the accounts for 1913-14 but the intimation thereof not having been received in time the amount was taken credit for in the accounts for 1914-15.

§ This is exclusive of Rs. 26-2-0, being the sub-division fee debited in the Bank's Pass Book (Rs. 18-1-0, on 20th March 1914 and Rs. 8-1-0, on 23rd March 1914) in the accounts for 1913-14 but the intimation thereof having been received late, it was taken in the accounts for 1914-15.

Appendix

LIABILITIES AND ASSETS of the Bombay

Liabilities.	Amount.	Total.	GRAND TOTAL.
	Rs.	Rs.	Rs. a. p.
Debt due to Govt. Brought forward	.....	.....	22,42,677 8 9
	Original. Rs.	Repaid.	Balance.
Do. to the Public. Brought forward	6,43,00,500	26,59,500	6,16,41,000
3½ % Loan.			
15¾ Lakhs Loan for the construction of Sewerage, Ward Bunder, &c., Roads, Burial Grounds and certain Water Works (1st Instalment)	10,00,000	.....	10,00,000
Total 5 %, 4 per cent. and 3½ per cent. Loans...	6,53,00,500	26,59,500	6,26,41,000
Total Debt due to the Public Rs. ...			6,23,41,000 0 0
II.—Deposits.			
Contractors', &c., deposits in Cash...	6,04,877 3 9		
Deposits on account of works performed for private parties	48,585 4 4	6,53,462 8 1	
Contractors', &c., Government, &c., Paper Deposits (lodged with the Bank of Bombay)	6,47,200 0 0		
Contractors', &c., Government, &c., Paper Deposits (kept in Office)	47,600 0 0		
Paper Deposits from Municipal Employés and Contractors pending submission to the Bank of Bombay (kept in office)...	4,400 0 0		
Deposit on account of Mr. Kasumalli Jairazbhai Pirbhai's Fountain at the Junction of Hornby Road and Falkon Road	5,000 0 0		
Deposit for the maintenance of J. N. Tata's memorial	1,200 0 0		
Deposit on account of Sir Mangaldas Nathoobhai's Clock	500 0 0		
Deposit for the maintenance of a charitable dispensary at Kamatipura opened by Rao Bahadur Ellapa Balaram	19,500 0 0		
Deposit for maintenance of the Ranade Memorial	1,200 0 0	7,26,600 0 0	
Government of Bombay on account of Income Tax recovered from Establishments	24 5 2		
Income Tax recovered from the owners of Public Land conveyances...	349 14 6	374 3 8	
Court attachments		54 8 0	
Miscellaneous Receipts, Stores Dept., Supervision Charges on stores sold	229 9 1		
Profit on sale of stores	2,161 2 6	2,390 11 1	
Interest realized on Government, &c., Paper lodged by Municipal employés, Contractors, &c.		42 2 6	
(Government of Bombay) Land Conveyance Licenses, &c.:—			
Through Chief Accountant on account of License Fees, Badges, &c.	4,442 15 0		
Government of Bombay—Expenses for sending indigent persons to the Pasteur Institute at Kasauli or Coonoor	100 0 0	4,542 15 0	13,87,467 0 4
III.—Purchases (Stores)		1,47,855 7 7	
Stock adjustment account		1,625 11 4	1,49,481 2 11
IV.—Loan Works Establishment			17,369 15 8
V.—Cheques Payable			2,25,381 8 2
VI.—Book value of Municipal Lands at Agripada, &c., transferred to the Improvement Trust			17,15,289 5 11
VII.—Contribution from Government towards the cost of Primary School Buildings...			26,892 11 0
Total Liabilities ...			6,84,07,859 4 9
Balance being Assets in excess of Liabilities			3,15,79,329 12 9
Total Rs. ...			9,99,87,189 1 6

W. E. WAITE,

Chief Accountant.

No. 10—*concluded.*

Municipality at 31st March 1914.

Assets.	Nominal value.	Actual cost.	Cash deposits.	Amount.	Total.	Grand Total.
				Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward ...					2,34,83,257 13 10	6,90,192 15
Special Funds Brought over	Rs. a. p. 1,81,000 0 0	Rs. a. p. 1,82,628 7 0	Rs. a. p. 228 12 10	1,82,857 8 10		
Worn-out Water Mains Renewal Fund—						
5 per cent. Municipal Debentures... ...	1,45,500 0 0	1,45,500 0 0				
4 per cent. Municipal Debentures... ...	1,70,000 0 0	1,67,791 14 0				
4 per cent. Bombay Improvement Trust Debentures	1,71,500 0 0	1,74,812 3 0				
4 per cent. Port Trust Bonds	11,000 0 0	11,226 14 0				
3½ per cent. Government Paper	39,500 0 0	40,462 8 0				
Total ...	5,37,500 0 0	5,39,793 7 0	218 7 5	5,40,011 14 5		
Net Premia Fund—						
5 per cent. Municipal Debentures ...	22,000 0 0	22,000 0 0				
4 per cent. Municipal Debentures ...	65,500 0 0	65,842 8 0				
4 per cent. Port Trust Bonds	22,500 0 0	22,964 1 0				
4 per cent. Bombay Improvement Trust Debentures	21,500 0 0	22,032 3 0				
3½ per cent. Government Paper	11,500 0 0	11,195 10 0				
Total ...	1,43,000 0 0	1,43,934 6 0	316 2 7	1,44,250 8 7 (a)		
Total Special Funds ...	8,61,500 0 0	8,66,356 4 0	768 6 10	8,67,119 10 1	8,67,119 10 10	
			Rs. a. p.		2,43,50,377 8 8	
e. Contractors', &c., Paper Deposits			.....	6,42,000 0 0		
f. Bank of Bombay on account of Public monuments, &c.—						
(1) Paper Deposit on account of Sir Mangaldas Nathoobhai's Clock ...			500 0 0			
(2) Maintenance of Cassumali Jairazbhai Pirbhoy's fountain at the Junction of Hornby Road and Palton Road...			5,000 0 0			
(3) Maintenance of J. N. Tata's Memorial			1,200 0 0			
(4) Maintenance of a Charitable Dispensary at Kamatipura opened by Rao Bahadur Ellapa Balaram			18,500 0 0			
(5) Maintenance of the Ranade Memorial			1,200 0 0	27,400 0 0	6,69,400 0 0	2,50,19,777 8 8
IV. Reserve Stock—						
Serviceable Stores—						
Stock				3,01,349 3 6		
Water Works Imprest				3,908 13 3		
					3,05,258 0 9	
Line suspense account					1,11,625 4 7	
Executive Engineer (General)					249 6 0	
					4,17,132 11 4	
Surplus and obsolete stores					8,761 2 8	4,25,893 14 0
Sales Stores						23,959 3 6
V. Loan Works—Construction—						
a. Buildings and Sanitary Structures				70,82,799 12 8		
b. Roads and Bridges				79,45,8 6 5 7		
c. Drainage (including Buildings)				1,86,27,810 14 6		
d. Water Works (Do.)				3,18,47,009 1 8		
e. Cemeteries (Burning and Burial Grounds)				7,11,017 13 5		
f. Disposal of Town Sweepings				10,81,108 6 1		
g. Miscellaneous				2,29,557 11 7		
					6,75,95,140 1 8	
					45,57,835 11 11	
VI. Unbooked Property					7,21,12,975 13 5	
VII. Other Property—						
Lands transferred to Bombay Improvement Trust					17,15,289 5 11	
						7,38,28,265 3 4
Total Rs. ...						9,99,67,189 1 6

(a) Of this Rs. 55,166-6-0 belong to the Water Works Account.

P. R. CADELL,
Municipal Commissioner.

Appendix No. 10-A.

SCHEDULE of New Works, &c., carried out from Loan and Special Funds up to 31st March 1914.

	Amount.	Total.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—BUILDINGS AND SANITARY STRUCTURES—			
Bandora Slaughter Houses	2,24,297 12 8		
Workshop and Store Shed	1,49,079 7 1		
Girgaum Police Court (Share of)	31,000 0 0		
Null Bazar Market	1,50,770 1 7		
Fort Market	22,066 7 11		
Arthur Crawford Market	11,59,410 11 6		
		17,29,624 8 9	
44 Lakhs Sanitary Works Loan—			
Enlargement of Dhobi Lines at Mahaluxmi	28,499 12 3		
Chawl for Gowlies working at the Agripada Milch-Cattle Stables	6,129 13 6		
Health Department Stables at Bori Bunder	43,677 13 3		
Establishment Charges for the above three Works	8,803 2 6		
		87,110 9 6	
10,08,500 Miscellaneous Works Loan—			
Market at Colaba	(a) 44,893 15 11		
Extension of Erskine Road Market	(b) 3,99,258 0 0		
Extension of the Arthur Crawford Mutton Market	42,754 2 9		
		4,86,906 2 8	
35 Lakhs Various Sanitary Works Loan—			
Health Department Bullock Stables and Quarters for Scavengers	1,23,897 4 11		
Bhuleshwar Market Extension	3,22,817 1 11		
Labourers' Quarters in connection with the Arthur Crawford Market	9,518 14 3		
Foras Road Market	40,499 14 11		
Chawl for Halalkhores in Cursetji Suklaji Street	88,460 8 2		
		5,85,193 12 2	
8 Lakhs Loan and Special Investment Fund—			
Municipal Office Buildings		(c) 14,67,886 11 3	
4½ Lakhs Fire Brigade Loan—			
Land and Buildings for Fire Brigade		4,03,320 6 1	
13½ Lakhs Various Sanitary Buildings Loan—			
Construction of Chawls, &c., for Halalkhores at Valpakhadi (Managaon) Rs. 1,89,000-0-0	2,29,441 3 1		
Additional land for do. do. Rs. 50,000-0-0			
Construction of semi-permanent huts for Biggaries at Arthur Road	28,379 9 10		
Construction of Chawls for Halalkhores, &c., at Cochin Street, Fort	56,554 5 6		
Construction of stables for the Health Department on the Grant Road Hospital site	47,334 4 7		
Construction of the Sankli Tank Bullock Hospital with residential quarters for Inspector and Shalotri	1,54,428 6 6		
Construction of a stable for Bullocks of Night Branch and an office at Arthur Road	64,655 2 4		
Construction of stables and Chawls for B Ward at Jail Road. North	1,35,536 10 8		
Construction of stables and Chawls for D Ward Bullocks and Biggaries at Annesley Road	1,28,245 10 0		
Construction of Chawls for Biggaries at Arthur Road	1,11,495 8 8		
Construction of stable for E Ward, West of Kamatipura	48,223 7 0		
Construction of Chawls for Halalkhores at Tardeo Flats	1,344 10 9		
Construction of a stable for Bullocks at Mahim	81 9 0		
		9,36,629 14 11	
55 Lakhs Loan—			
Construction of additional quarters for the Fire Brigade Staff at Byculla Fire Brigade Station	30,995 8 8		
Construction of an Engine House and Foreman's quarters at the Sankli Tank Fire Brigade Station	26,352 13 0		
Construction of shops on the Western and Southern sites at the Arthur Crawford Markets, Hornby Road	4,822 7 10		
55 Lakhs Loans, carried over .. Rs.	62,370 13 6		
A.—Buildings and Sanitary structures carried over Rs. ..		57,16,172 1 4	

(a) Exclusive of Rs 21,940 paid out of the Premia received on the Loan, and Rs. 28,050 paid out of savings on different Loans.

(b) Exclusive of Rs. 31,908-11-11 paid out of the Premia received on the Loan.

(c) Inclusive of Rs. 7,24,326-6-3 paid out of the Investal Fund.

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—Buildings and Sanitary Structures—*contd.* and brought forward ... Rs.		57,45,172 1 4	
55 Lakhs Loan—*contd.* and brought forward ... ... Rs.	62,370 18 6		
Building a new office in Sankli Street for the use of the Assessment Department, E Ward Office, and constructing a Ward Office, Chowkidars' Quarters and Store Room for the Streets and Buildings Branch, E Ward, in Sankli Street...	22,871 7 10		
Building a new office at Dadar for the use of the Assessment Department, F and G Ward Offices and converting the existing Ward Office into a godown and providing latrines for the workmen	13,419 0 9		
Constructing additional rooms and adding a storey over several Fire Brigade Stations to provide accommodation for additional staff ...	12,437 5 7		
Renewing the two blocks of the Butcher's Chawl at the Bandora Slaughter Houses	22,029 5 4		
Construction of A Ward Offices for the different branches of the Engineer's Department at Mint Road	20,856 6 6		
Acquisition of land and properties at Jail Road, North, for the construction of stables and chawls for the Health Department	1,92,681 0 0		
Purchases of about 4,030 square yards of land at the junction of Bapty Road and Falkland Road belonging to the Tramway authorities ...	1,22,728 6 0		
Construction of buildings for Primary Schools	1,63,609 5 0		
Making alterations in the three permanent Wards of the Arthur Road Hospital and in gas and other lighting arrangements in the Compound, Wards, &c., in the Arthur Road Hospital	21,955 10 9		
Construction of a Fire Brigade Station at Elphinstone Bridge Road ...	62,508 13 5		
Construction of two additional chawls for biggaries at Chembur	17,122 12 10		
Construction of 25 bathing places in the City	21,419 15 10		
		7,56,001 13 4	
Executed out of Savings on different Loans—			
Providing living and other accommodation at the Gowalia Tank Road, Babula Tank, Chinchpokli and Sankli Tank Fire Brigade Stations ...	12,527 2 2		
Constructing Lascars' quarters, &c., at Gowalia Tank Fire Brigade Station.	8,983 1 10		
Latrines at Colaba	20,290 13 10		
Constructing new Quarters for an Engineer and 10 Lascars at Sankli Tank Fire Brigade Station	13,537 13 11		
Portion of cost of site for the Colaba Market	28,000 0 0		
Currey Road Market	15,252 5 10		
Market at Chowpati	63 0 0		
Health Department Stables in F & G Wards	68,120 8 2		
Market at Elphinstone Road	15,242 13 3		
Construction of a Cook-room in connection with the existing Engineer's Quarters and two Nahanis in connection with the Lascars' Quarters at Sankli Tank Fire Brigade Station	1,382 10 3		
Health Department Biggaries' Chawl at Bori Bunder	50,068 0 7		
Constructing a chawl of 52 rooms at the Bandora Slaughter Houses ...	31,240 0 8		
Providing latrines and Urinals at different places	58,909 15 6		
Providing accommodation, &c., for the General Stores	38,753 5 5		
Acquisition of land at Colaba as a site for Quarters for Halalkhores ...	4,312 15 5		
Providing wooden racks in Block No. 2 of the Central Stores Building at Chinchpokli	2,495 5 4		
Market at Kamatipura	50,644 11 2		
Constructing office quarters and store-room for S. and B. Branch in G Ward at DeLisle Road on the site of Foras Tank	19,391 11 9		
Construction of an additional storey over the Bhuleshwar Fire Brigade Station	6,902 12 3		
Construction of 11 Urinals on Port Trust ground near the Docks ...	6,502 13 2		
		4,52,163 3 11	
Advances from Surplus Balances—			
Construction of new Municipal Workshops at Foras Road	1,27,976 12 1		
Construction of new Ward Offices at Babula Tank for the Assessment and Health Departments	48 6 0		
Providing bungalows for Engineers and quarters for servants and Engine Drivers at Love Grove Pumping Station...	1,437 8 0		
		1,29,462 10 1	
Total for A Rs. ...			70,82,799 12 8
Carried over Rs. ...			70,82,799 12 8

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			70,82,799 12 8
B.—Roads and Bridges—			
Overbridges	1,97,563 0 1		
Foras Road	1,12,418 14 10		
Nowroji Hill Road	57,913 3 0		
		3,67,895 1 11	
44 *Lakhs Sanitary Works Loan*—			
Road from Bellasis Road across Old Race Course (including Establishment Charges)		1,41,500 1 2	
10,08,500 *Miscellaneous Works Loan*—			
Cross Road at Mahaluxmi Station from Clerk Road to Haines Road ...	19,594 4 8		
Road through Nowroji Hill from Elphinstone Bridge to Dongri Street ...	70,089 2 0		
		89,683 6 8	
35 *Lakhs Various Sanitary Works Loan*—			
Roads and Streets in Agripada and elsewhere	15,02,461 2 10		
New Road from Jakeria Bunder Road to Sewri Cemetery	24,217 15 11		
		15,26,679 2 9	
23¼ *Lakhs Loan*—			
Falkland Road Bridge	15,082 9 4		
Wari Bunder Bridge	1,32,652 0 0		
		1,47,734 9 4	
15¾ *Lakhs Loan*—			
Wari Bunder Road...	*3,75,747 7 1		
Victoria Road Extension	30,895 10 4		
		4,06,643 1 5	
15 *Lakhs Loan*—			
Street Improvement in different places...	15,00,000 0 0		
		15,00,000 0 0	
30 *Lakhs Loan*—			
Overbridge at Elphinstone Road, B. B. & C. I. P. Railways...	2,47,658 3 5		
Do. at Arthur Road, G. I. P. Railway...	1,96,754 4 7		
Do. at Currey Road, G. I. P. Railway	5,69,783 6 7		
Do. at Clerk Road, G. I. P. Railway	3,15,652 7 0		
Do. at Do. B. B. & C. I. Railway	65,330 14 5		
Do. at DeLisle Road	6,72,699 13 1		
Establishment, &c., Charges	38,976 15 5		
		21,06,236 0 6	
55 *Lakhs Loans*—			
Construction of a New Road through Cavel from Girgaum Road to Kalbadevi Road up to the Church of Lady of Health	1,32,943 9 11		
Widening of Cruickshank Road and improvement of the corner of Cruickshank and Elphinstone Roads	40,817 10 9		
		1,73,761 4 8	
20 *Lakhs Loan*—			
Street Improvements in different places		6,00,000 0 0	
Executed out of Savings on different Loans—			
Providing and fixing new pattern hydrants for watering and Fire Brigade purposes	50,000 0 0		
Diversion of Arthur Road over the masonry culvert	16,266 11 1		
Acquisition of land at different places as sites for new Roads	26,088 13 3		
Street Improvements in different places	2,40,000 0 0		
		3,32,355 8 4	
B.—Roads and Bridges, carried over Rs. ...		78,91,988 4 9	
Carried over Rs. ...			76,82,799 12 8

* Including Rs. 1,76,500 contributed by the Port Trust.

Appendix No. 10-A—*continued.*

	Amount.			Total.			Grand Total.		
	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Brought forward Rs. ...							70,82,799	12	8
B.—Roads and Bridges, &c.—*contd.* and brought forward				73,91,988	4	9			
Advanced from Surplus Balances—									
Construction of a 60 ft. road along Tulsi pipe line from DeLisle Road to Dadar Road including S. W. drains and other roads	2,311	13	1						
Acquisition of land at Fergusson Road	1,301	7	7						
Do. do. at Hamalwadi	58,139	12	7						
Do. do. at Piru Lane	64,508	3	11						
Do. do. at Goga Street	20,920	13	5						
Do. do. at the Junction of Gun Carriage Street and Thomas Street	4,357	0	0						
Do. do. at King Lane...	10,439	8	3						
Do. do. at Nishanpada Road	610	15	3						
Do. do. at Chunam Kiln Cross Lane	573	13	5						
Do. do. at Old Nagpada Street	1,817	3	11						
Construction of a road from B. B. & C. I. Railway Matunga Station westward to Mahim including storm-water drains...	1,30,736	11	4						
Improvement of Worli Road	39,819	0	1						
Widening of Queen's Road from the Church Gate Railway Station to Wodehouse Bridge	37,944	9	0						
Purchase of a plot of land at Ormiston Road from the Bombay Electric Supply and Tramways Co., Ld., for a Metal Depôt	1,49,492	8	0						
				5,34,978	8	10			
Met out of the Nesbit Road Invested Fund—									
Nesbit Road Bridge (Portion of Cost)				49,844	8	0			
Met out of the Road Improvement Fund—									
Spent on Special Street Improvements				19,000	0	0			
Total for B							79,95,806	5	7
C—Drainage Works—									
Fort Sewers	78,627	4	8						
Kamatipura Drain	1,91,017	8	10						
Drains in Faunswadi and Agiary Lane	1,852	12	3						
Branch Sewers, Bellasis Road	7,102	6	1						
				2,78,935	15	10			
Surface Drainage Works executed out of the 6 Lakhs included in the Government Consolidated Loan and Rs. 3,12,000 included in the 24 Lakhs Loan—									
Widening Love Grove Sluices	1,67,326	7	7						
Culverts under the B. B. & C. I. Railway near Bellasis Road	1,791	0	8						
Khetwadi Survey	5,599	10	0						
Raising Level of Khetwadi Roads	28,355	0	1						
Raising private compounds in Khetwadi	35,336	2	1						
Three branch drains in Khetwadi and storm-water entrances ...	31,771	15	6						
Intercepting drain in Tardeo District and storm-water entrances ...	1,69,851	10	4						
Making connection between low-level sewers and new main drains ...	2,510	8	10						
Intercepting drain from Pydhoni to Bellasis Road and storm-water entrances	3,68,229	3	9						
Enlarging old open main drain	71,818	13	5						
Laying a new 24" main and removing old 24" Tulsi main	74,226	14	0						
Constructing storage reservoir on the Flats and raising levels of manholes and sewers	1,86,225	12	6						
Establishment for the above works	1,21,413	0	0						
Contingencies	63,627	6	11						
Cleaning the Worli storm-water drain and widening the channels South of the Love Grove sluices	79,510	9	7						
				13,22,134	3	3			
Drainage Loan of 1878—									
Main sewers...	4,92,691	8	2						
Pipe sewers	3,06,746	13	1						
Outfall sewer	2,56,706	10	0						
Kamatipura drainage	76,471	4	6						
Clerk Road Ovoid sewer	39,259	5	11						
Government Commission charges	8,211	13	9						
Preliminary expenses	13,429	6	5						
Departmental works	1,672	1	3						
Compensation for land	18,831	11	1						
Proportion of repairs to roads (opened for the works)	34,372	14	7						
Miscellaneous charges	22,302	15	7						
Establishment for the above works	1,45,000	0	0						
Contingencies	51,167	7	9						
Repairs to old Main Drain at Falkland Road	2,093	13	5						
				14,58,417	15	6			
C.—Drainage Works, &c., carried over Rs. ...				30,59,188	2	7			
Carried over Rs. ...							1,50,74,806	2	8

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Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			1,50,78,606 2 3
C.—Drainage Works, &c.—*contd.*		30,59,188 2 7	
44 *Lakhs Loan*—			
House connections without privy fittings	6,52,080 1 7		
Shaft ventilators	44,947 0 6		
Closing storm-water openings in Frere Road sewer	17,108 9 6		
Queen's Road intercepting sewer	1,53,969 0 0		
House connection survey	4,561 12 3		
House connections, Kamatipura Drainage	34,977 7 5		
Establishment charges	88,869 0 0		
Pipe sewer from Clare Road along South portion of Haines Road and DeLisle Road	1,14,260 0 7		
Pipe sewer from Parel Workshop to Clerk Road ovoid sewer	45,793 9 11		
Extension of Clerk Road ovoid sewer to Parel Road	35,569 8 4		
Ovoid sewer across the Old Race-course	59,746 13 2		
Ovoid sewer from the Crawford Market down Hornby Road to Bazar Gate and thence to the Mint	89,491 11 9		
Establishment	56,309 0 0		
		13,77,596 11 8	
7 *Lakhs Sanitary Works Loan*—			
Adjustment of the extra expenditure incurred on the Queen's Road intercepting sewer	9,633 10 8		
Fort Drainage	3,68,422 5 9		
Establishment charges	39,419 0 0		
New Works at Love Grove Pumping Station...	34,645 9 6		
Construction of a side drain along Wari Bunder Road	4,934 0 1		
Construction of a pipe sewer in certain lanes in Khetwadi	5,282 6 9		
		4,62,337 0 0	
12 *Lakhs Loan*—			
Queen's Road pipe sewer including contingencies	6,69,998 4 2		
Queen's Road house connections	2,05,306 0 9		
Establishment and contingencies	86,132 14 3		
		9,61,437 3 2	
10,98,500 *Miscellaneous Works Loan*—			
Extension of Parel Road Storm-Water Drains from Pellasis Road to 3rds the length of Ripon Road	41,106 6 9		
9" Pipe sewer along Bellasis Road, Foras Road and Gilder Street	17,290 8 1		
		58,396 14 10	
2,48,000 *Agripada House Sullage Water-connections Loan*—			
House Sullage Water-connections at Agripada		2,33,533 12 10	
35 *Lakhs Various Sanitary Works Loan*—			
Sewer flushing arrangements		18,964 7 3	
20¼ *Lakhs Loan*—			
Pumps and steam engine for the working of the Love Grove Pumping Station	4,63,345 8 6		
Sewerage of Colaba	7,56,419 0 0		
Sewerage of Umarkhadi District	3,55,786 5 9		
Storm-water drains in Moreland, Souter, Club and Gilder Streets	79,644 0 2		
Storm-water drains in different places	21,819 11 2		
Storm-water drains in Connaught and Sussex Roads	35,923 15 9		
Miscellaneous extensions and improvements of drains	33,964 6 1		
		17,44,902 15 5	
15¾ *Lakhs Loan*—			
Sewerage of the Mazagon District on gravitation system	3,06,680 0 5		
Sewerage of Malabar and Khamballa Hills on gravitation system	1,31,968 0 1		
Sewerage of Fergusson Road and Chinchpokli District	89,829 8 5		
Raising sewerage in Queen's Road sewer	1,862 0 0		
Sewerage of Old Race-course District on gravitation system	39,039 8 1		
		5,69,077 1 0	
C.—Drainage works, &c., carried over Rs. ...		84,20,031 4 9	
Carried over Rs. ...			1,50,78,606 2 3

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			1,50,78,606 2 3
C.—Drainage Works, &c.—*contd.*		84,20,031 4 9	
25 *Lakhs Loan*—			
Machinery for the sewerage of Parel, the Mazagon, &c., sectional districts.	7,35,520 6 6		
Mazagon District, sectional	3,52,785 4 2		
Storm-water drain from Wellington Fountain *via* Bandstand to the Sea ...	36,778 4 2		
		11,25,083 14 4	
19¼ *Lakhs Loan*—			
Improvements in *the road side drains* along Bhoiwada Cross Road and new side drains along portions of Dadar Road, &c.	29,856 14 11		
Surface drainage of Kamatipura	83,440 9 2		
Storm-water drain in Tardeo Road	1,58,542 11 3		
Low-level channel from the Tardeo Flats to Worli Point	11,83,726 0 0		
		14,53,566 3 4	
24¾ *Lakhs Loan*—			
Sewerage of the Fergusson Road and Chinchpokli District on the sectional system	2,56,782 14 6		
Sewerage of the Parel District on the sectional system	4,66,272 3 7		
Completion of house drainage connections in different parts of the City ..	7,99,631 7 0		
Difference in the cost of the works proposed by Mr. Santo Crimp in connection with the drainage of the lower parts of the City	1,44,164 9 9		
		16,66,251 2 10	
Second 24¾ *Lakhs Loan*—			
(17) Catchpits on pipe sewers	26,994 14 0		
(17) Catchpits on ovoid sewers	43,165 13 4		
Sewerage of the Malabar Hill District—Sectional	6,39,948 0 0		
Construction of a new out-fall at Worli Point	57,584 8 9		
Sewerage of the Elphinstone reclamation	1,10,297 7 0		
		9,17,940 11 1	
55 *Lakhs Loan*—			
Construction of storm-water drains in Marine Lines, from the northern end of the B. B. & C. I. Ry. Office to the junction of 1st Marine Lines	13,177 10 10		
Providing an additional Pipe Sewer and Ejector in Fergusson Road near its junction at DeLisle Road (*North*)...	70,071 10 9		
Construction of a storm-water drain in Arthur Road from its junction with Kalachowki Road to Jacob Circle	65,453 14 7		
Extension of Low Level Channel No. 2 from DeLisle Road to Dadar Road	2,77,508 5 7		
Constructing a storm-water drain in Colaba Causeway between Ormiston Street and Thomas Street	8,638 5 0		
Construction of a storm-water drain in DeLisle Road (*North*)	48,396 3 3		
Provision of Ejectors in the Colaba Sub-District	1,63,901 6 6		
Construction of a storm-water drain in DeLisle Road (*South*)	15,257 13 3		
Extending the existing storm-water drain and constructing water gullies and water tables in Mazagon Road	4,921 11 1		
Constructing a storm-water drain in New Parbhadevi Road	33,746 5 0		
Constructing storm-water drains in Khetwadi Back Road	25,650 3 11		
Constructing a storm-water drain in Queen's Road from Wodehouse Road Bridge to Band Stand	11,086 9 4		
Constructing a storm-water drain in Mayo Road from Queen's Statue to Church Gate Street	9,192 11 8		
Constructing a storm-water drain in DeLisle Road, north of Arthur Road.	44,502 3 0		
Constructing a storm-water drain in Mayo Road from Church Gate Street to Band Stand	21,182 3 3		
Measures for relieving the surcharging of sewers	15,70,953 6 6		
Construction of a storm-water drain from the junction of Reay and Connaught Roads to the Harbour near Lakri Bunder	5,55,975 4 7		
Construction of a storm-water drain in DeLisle Road, South of Arthur Road	29,971 15 10		
Construction of a storm-water drain in Elphinstone Road, West	12,771 5 2		
Construction of a storm-water drain in Ghorupdeo Road	17,554 2 3		
Construction of a storm-water drain in Mugbhat Lane	8,021 15 6		
Construction of an office for the Drainage Staff and quarters and an office for the Head Plumber at Babula Tank and providing fencing round the Drainage Chowki and metalling the yard	36,681 13 11		
Construction of 2 new Drainage Chowkies at Bapty Road and Churney Road	13,083 15 6		
		29,96,861 3 9	
Executed out of savings on different Loans—			
Slab drain 18" × 18" in Store Lane, Homji Street	2,557 2 6		
Pipe sewer in Currey Road	2,595 15 5		
Main sewerage of Parel	22,121 7 8		
Arching over with brick masonry the main drain at the Arthur Road Crossing	15,655 0 4		
Executed out of savings on different Loans continued and carried over. Rs.	42,929 9 11		
C.—Drainage Works, &c., carried over Rs. ...		1,65,79,674 3 1	
Carried over Rs. ..			1,50,78,606 2 3

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			1,50,78,606 2 3
C.—Drainage Works, &c.—*contd.*		1,65,79,674 8 1	
Executed out of Savings on different Loans—contd.	42,929 9 11		
9" Pipe sewer at Lalwadi	2,087 8 2		
Laying branch pipe sewers in the village of Parel	17,527 13 11		
Ovoiding side drains to the north of Kalachowki Road	2,600 4 3		
Completing the storm-water drain from the top of Bazar Gate Street to the Salvation Army Hall, Bornby Road	14,460 2 7		
Sewerage of Parel on the gravitation system	62,084 1 5		
Storm-water drain in Cruickshank Road	17,337 6 0		
Laying a 9" pipe for the carriage of storm-water to the Sea from the eastern half of Wodehouse Road	1,092 1 3		
Laying a 9" pipe-line at the Parel village	878 7 3		
Storm-water drains in part of Gilder Street and Foras Road from Grant Road to Falkland Road	10,781 14 10		
Constructing a catch-pit on the Mint Road sewer opposite the European General Hospital	4,880 10 8		
Altering and ovoiding storm-water drain in Girgaum	11,548 14 10		
Construction of a storm-water drain in Khetwadi	52,662 2 8		
Draining the storm-water from the public road round the Mahaluxmi Dhobiwada	1,156 0 3		
Ovoiding and regrading the open roadside drains in Umarkhadi Road ...	3,119 0 11		
Converting the old Engine-house at Love Grove into an office and godown and constructing a shred-lifter chamber with 4 shred-lifters	25,031 4 1		
Tidal flaps on flushing drains for ovoid sewers...	2,285 4 4		
Drainage arrangements at Tardeo Road...	2,292 6 3		
Laying a 9" pipe sewer in Fergusson Cross Road	2,261 14 9		
Masonry drain from Girgaum Road and passing through Night-soil Depôt	21,517 6 7		
Opening out the public water-course behind Mr. Cama's property at Parel Road	3,362 8 7		
Laying a 12" pipe from the emergent reservoir to manhole in Apollo Street	8,169 7 8		
Storm-water drains in different places	34,904 7 9		
Ovoiding and constructing masonry side drains in different places... ...	17,895 11 11		
Ovoiding and constructing masonry side drains on Carroll Road, north side	2,711 3 3		
Ovoiding Kutcha drain in Arthur Road as far as G. I. P. Railway Crossing	4,988 15 1		
Constructing storm-water drains and ovoiding and constructing masonry side drains in different places	20,493 10 8		
Automatic flush tanks on pipe sewers	38,434 0 10		
Improving side drains, Malabar Hill	7,672 13 6		
Storm-water drains at Fergusson Road from DeLisle Road to the water-course (3,200 feet) west of the road	29,964 4 9		
Providing and constructing masonry side drain in Malabar Hill	7,946 11 0		
Providing and constructing masonry side drains (*a*) on Naigaum Cross Road on both sides from Vincent Road to Dadar and (*b*) east and west of Ghorupdeo Road	5,239 5 6		
Storm-water drain running on the west of the G. I. P. Railway Dadar Station	7,023 6 9		
Constructing quarters for workmen at Love Grove Air Compressor Station (including purchase of land and an old chawl)	21,961 1 5		
Constructing additional quarters for Lascars at Love Grove	5,477 9 6		
Cutting out rocky barriers in the channel at Love Grove	146 6 0		
Surface Drainage in Queen's Road between the level-crossing and Charni Road	2,807 15 0		
Ovoiding and regrading the side drain in Imamwada from Parel Road to Jail Road, North	2,089 3 10		
Masonry Storm-water Drain 18" × 18" in Apollo Street	1,888 15 9		
Open ovoid drain on the east side of DeLisle Road	1,567 14 10		
Zinc ventshafts on pipe sewers in the Fort Sewerage District	11,165 8 9		
Storm-water drain in Sankli Street	11,529 15 8		
Cost of obtaining advice from Mr. Santo Crimp, in regard to House connections, &c.	11,992 9 10		
Construction of permanent manholes over drains	37,950 5 7		
Masonry side drains at Malabar Hill from Gowalia Tank Road to the Government House	7,605 4 2		
Tidal flaps on the ovoid sewers	11,025 14 0		
Construction of a coal shed, a coal tramway, and fence round the compound of the Love Grove Air Compressor Station	11,211 10 9		
6" Pipe Drain in DeLisle Road	430 10 7		
6" Pipe Drain in Banganga Cross Lane	824 15 8		
Extension of the 15" sealed sewage main in Fergusson Road from the Culvert to Worli Road	11,466 8 10		
Laying a 6" pipe drain in Tulsirampada in Parel Chawl Road	1,051 12 0		
Executed out of Savings on different Loans continued and carried over Rs.	6,33,852 0 9		
C.—Drainage Works, &c., carried over Rs. ...		1,65,79,674 8 1	
Carried over Rs. ...			1,50,78,606 2 3

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ..			1,50,78,606 2 3
C.—Drainage Works, &c.—*contd.*		1,65,79,674 8 1	
Executed out of Savings on different Loans—contd.	6,33,852 0 9		
Laying a 6" pipe drain in the private passage known as Kalachowki Cross Lane	692 14 7		
6" Pipe Drain in the passage to the north of Parel Cross Lane	472 10 3		
Connecting certain properties in Gilder Street with the new storm-water drain constructed thereat	1,496 13 1		
Laying a 9" stoneware pipe drain in a portion of Foras Road, west of Carroll Road	1,365 13 11		
Laying a 6" pipe drain in the passage belonging to Sulleman Jusab at Belvedere Hill Road	647 8 2		
Laying a 6" pipe drain in Bapty Road	486 15 2		
Laying a 9" pipe drain at Tank Bunder, Kolliwada	2,042 13 3		
Construction of a catchpit on the Queen's Road ovoid sewer in Charni Road, &c.	6,202 0 4		
Laying a drain at Mr. Tribhowandas Varjivandas' Cart at Girgaum Back Road	254 13 2		
Storm-water drain in Ripon Road from Agripada drain to Jacob Circle ...	27,086 12 11		
Storm-water drain in Clerk Road from Parel Road to Jacob Circle...	26,900 9 11		
Storm-water drain in Haines Road from Khatao Makanji's Mill to Jacob Circle	48,844 13 3		
Laying a branch 6" pipe sewer at DeLisle Road	761 3 7		
Laying a 6" pipe drain at Ghorupdeo Road	404 6 3		
Laying a 9" pipe sewer along Elphinstone Road at its Junction with Parbhadevi Road	1,112 5 3		
Laying a 9" pipe drain with Inspection Chamber at the passage running through Chamarbag properties	3,938 8 10		
Giving Street connections to storm-water drains in the City	17,541 0 9		
Laying a 6" pipe drain on the Tulsi main road	1,000 9 1		
Laying a 6" pipe drain at Ghorupdeo Road, 1st Cross Lane	360 14 10		
Constructing a storm-water drain at Kalachowki Road	789 2 3		
Laying a 6" pipe drain along Chamarbag properties in Parel Road ...	1,166 0 8		
Laying a pipe sewer between Forjett Street and Tardeo Road	2,409 10 2		
Fees to Mr. Midgley Taylor on account of his report on the Ejector, &c., required for Sectional District	1,961 1 4		
Establishment for the preparation of plans and estimates for the sewerage of Mazagon, Parel and Old Race Course Districts	10,338 0 0		
Tracing the plans and sections of the Parel, Mazagon and Old Race Course Districts	658 15 0		
Fees to Messrs. Midgley Taylor and G. R. Strachan for their opinion on matters connected with the surcharging of sewers...	16,796 13 4		
Expenses incurred by Mr. James in connection with inquiries in regard to Lierner system, &c.	1,684 3 0		
Construction of a storm-water drain in Church Gate Street from its junction with Mayo Road to the main storm-water drain in Queen's Road near the Church Gate Street	4,033 9 5		
Laying a 6" pipe sewer in the passage opening to Portuguese Church Road	297 4 3		
Laying a 6" pipe drain at Madanpura	346 4 2		
Extension of the 15" sealed sewage main from the Chinchpokli Fire Brigade Station to the head manhole on Clerk Road sewer	12,408 4 9		
Constructing a storm-water drain in Colaba Causeway between Mayo Road and Thomas Street	8,973 9 11		
Preparation of certain models for improvement of main sewers, &c. ...	200 0 0		
Laying 9" pipe drain in the passage behind the New Building of Mr. Hormusji Vakil	5,226 13 4		
Laying a 6" pipe drain in the passage leading to the Hon'ble Mr. Setalvad's Bungalow	1,244 3 6		
Laying a 6" pipe drain in the Nepean Sea Road	1,213 11 7		
Laying a 9" pipe drain at Elphinstone Road	6,761 10 9		
Extending the existing 6" pipe drain in the passage off Dadar and Kumbharwada Cross Lane	63 7 10		
Laying a 6" pipe drain in the passage at Currey Road	471 10 2		
Laying a 9" pipe drain in the passage leading to Government Gate Road, Parel	2,139 0 6		
Laying a 4" C. I. pipe drain from DeLisle Road to the boundary of the Century Mill premises	4,816 0 10		
Providing an additional pipe sewer and Ejector in Fergusson Road near its junction at DeLisle Road (North)	8,000 0 0		
Laying a 6" pipe sewer in the passage near the Lunatic Asylum, Colaba ...	1,864 5 4		
Laying a branch drain in the passage off Mount Pleasant Road	727 10 6		
Laying a 6" pipe sewer at Banganga Tank Lane	929 8 9		
Laying a 7" pipe drain on the eastern boundary of the Babula Tank ...	1,821 9 2		
Laying a 6" pipe drain in Gowalia Tank Road	387 11 9		
Laying a 6" pipe drain at Victoria Bunder Road	367 11 6		
Laying a 9" pipe drain in Kamatipura, 9th Street	562 1 2		
Laying a 6" pipe drain in the Lane behind No. 49-51, Warden Road ...	1,616 10 10		
Executed out of Savings on different Loans—Carried over Rs. ...	8,74,526 9 1		
C.—Drainage Works, &c.—Carried over Rs. ...		1,65,79,674 8 1	
Carried over Rs. ...			1,50,78,606 2 3

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			1,50,78,606 2 3
C.—Drainage Works, &c.—*contd.*		1,65,79,674 8 1	
Works Executed out of Savings on different Loans—*contd.*	8,74,526 9 1		
Laying 6″ pipe drain at Warden and Tardeo Roads	480 3 6		
Laying 6″ pipe sewer in the compound of premises No. 14-20 to the east of Cumballa Hotel Lane	615 3 7		
Laying a 6″ pipe drain in the passage leading to Khed Tank in the north of Elphinstone Road	1,027 11 3		
Laying a 6″ pipe drain in the passage to the east of Cumballa Hotel Lane	334 6 2		
Laying a 6″ pipe drain at Nepean Sea Road	978 13 7		
Colaba Sewerage Work	44,536 14 11		
Sewerage of the Malabar Hill District	7,394 12 2		
Laying a 4″ air main in Victoria Extension Road from the junction of Victoria Road and Mount Road to Ejector Station No. 2, Mazagaon, in place of the existing 2½″ C. I. main	4,320 0 2		
Construction of a sealed sewage main from the Elphinstone Road Ejector Station to Worli Road	68,326 11 1		
Constructing a masonry drain with four manholes and eight half-sized water entrances at DeLisle Road	6,951 8 10		
Filling in the open side drains on both the sides and providing covered storm-water drains with water tables and water gullies in portions of 1st to 5th Khetwadi Lanes and Main Roads	7,481 11 8		
Filling in old side drains and providing a covered drain with manholes, full sized and half-sized water entrances, with water tables on 14th Khetwadi Lane	3,104 6 3		
Providing storm-water drain with water entrances and water tables at 11th Khetwadi Lane	3,184 12 1		
Constructing a road-side drain and providing a covered storm-water drain at Girgaum Back Road	12,952 13 9		
Laying a 6″ pipe drain on the West of Dadar Road	258 10 8		
Laying a 9″ pipe sewer between Charni Road and Khetwadi 11th Lane...	1,689 8 1		
		10,38,264 7 10	
Advances from Surplus Balances—			
Construction of a storm-water drain from the foot of the Byculla Bridge to the Junction of Connaught and Reay Roads	8,14,019 3 9		
Construction of a storm-water drain in Soparibag Road	2,12,414 13 2		
Construction of a storm-water drain from the junction of Connaught and Reay Roads to the Kalachowki and Soparibag Roads	4,83,467 13 8		
		10,09,901 14 7	
Total for C Drainage ...			1,86,27,840 14 6
D.—Water Works—			
Vehar Lake (value of)		45,21,943 7 9	
Tulsi Water Works	37,61,888 6 0		
Vehar Outlet Tower	2,88,111 10 0		
		40,00,000 0 0	
Drainage and Water Works Loan of 1878—			
Service Reservoir at Bhandarwada		10,16,830 13 3	
44 *Lakhs Sanitary Works Loan*—			
Tulsi gathering ground	60,000 0 0		
Malabar Hill Reservoir	4,00,000 0 0		
New hydrants, including cost of erection	20,876 2 1		
Tulsi gathering ground	84,500 0 0		
Construction of a double-storeyed chawl for the Water Works staff and quarters for the Superintendent	29,182 3 3		
Survey of new catch-water channels, &c.	7,888 4 1		
Construction of filter beds at Vehar	1,04,488 15 11		
Improvement of the water-supply of the outlying districts	6,82,085 0 8		
Raising the Tulsi dams	1,18,257 9 7		
Providing additional catch-water channels at Vehar and Tulsi	91,794 0 6		
Purchase of check meters for the prevention of waste of water	1,27,132 14 2		
Enlarging different mains	1,03,130 8 6		
Cost of new water mains from Nesbit Road to Babula Tank	15,000 0 0		
Establishment charges	80,770 0 0		
Portion of excess cost of Vehar Outlet Tower—debitable to this Loan ...	23,684 11 9		
Provision of turbine at the Malabar Hill Reservoir	2,282 0 0		
		18,95,947 12 0	
7 Lakhs Sanitary Works Loan—			
Malabar Hill Reservoir (extra cost)	1,14,089 2 6		
Increasing and improving the distribution of the water-supply and providing higher levels, Tulsi District, with filtered water	20,211 8 4		
Portion of excess cost of Vehar Outlet Tower	7,990 10 6		
		1,42,241 5 4	
12 Lakhs Drainage and Water Works Loan—			
18″ main in Frere Road from the Bhandarwada Reservoir to Carnac Road and 12″ main from Carnac Road to Mint		80,032 5 0	
10,08,500 Miscellaneous Works Loan—			
Concrete trench, waste weir, Vehar Lake	30,608 7 1		
Mains in 14 streets west of Frere Road and other mains in various places.	59,275 1 8		
Arthur Road connection works necessitated by the laying of the Tansa 27″ main	9,542 10 5		
Deacon's meters	16,788 0 0		
		1,16,214 3 2	
D—Water Works, &c.—Carried over Rs. ...		1,17,75,208 14 6	
		Carried over Rs. ...	3,37,06,447 0 9

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			3,37,06,447 0 9
D.—Water Works, &c.—*contd.*		1,17,73,208 14 6	
35 *Lakhs Various Sanitary Works Loan*—			
Providing an asphalt surface to the floor of the settling basin of the Malabar Hill Reservoir and other works in connection therewith ...	92,872 9 2		
Pawai Water Works	6,60,479 6 9		
Additional Water Mains	98,386 0 10		
Extension of Tulsi Catch-water Channel	20,836 9 1		
		8,72,574 9 10	
147 *Lakhs Tansa Loan*—			
Tansa Water Works including cost of survey		*1,46,96,888 7 0	
15¾ *Lakhs Loan*—			
Improvements of the outlet towers at Vehar and Tulsi		12,842 13 10	
25 *Lakhs Loan*—			
9″ Main from Ghorupdeo Road to Jackeria Bunder Road and 6″ Main from thence to Sewri Cemetery Road...	27,892 4 7		
New mains in Reay Road, &c.	1,042 5 0		
Main along Kalachowki Road from Parel Road to Ghorupdeo Road and along Reay Road from Kalachowki Road to Bhandarwada Reservoir ...	1,26,969 12 8		
9″ Service main connected at one end with the Bhandarwada Reservoir and at the other with the Sewri Road 12″ main and supplemented midway by a 9″ service main down Connaught Road	48,364 0 5		
		2,04,268 6 8	
23¼ *Lakhs Loan*—			
Extension of water mains in various places	28,026 6 5		
Further alterations and improvements at the Malabar Hill Reservoir ...	29,971 14 8		
Covering storage basin at the Bhandarwada Reservoir and constructing filters over it	91,052 13 0		
Road from Vehar to Tulsi with a light tramway to carry pipes	471 3 6		
		1,49,522 5 7	
24¾ *Lakhs Loan*—			
9″ and 10″ pipes from Grant Road to Kamathipura	6,848 4 10		
Distribution mains in Tardeo and Gamdevi Roads	7,891 5 2		
Mains from 48″ Tansa main at Chinchpokli to Grant Road and 32″ main from Grant Road to Malabar Hill	2,10,000 0 0		
32″ outlet mains from Malabar Hill to Chowpati	30,000 0 0		
		2,54,239 10 0	
12½ *Lakhs Water Works Loan*—			
Construction of additional filters at the Malabar Hill Reservoir	2,45,819 9 2		
Replacement of the Vehar main for the whole distance between Vehar and Cooria, north of Cooria	6,71,149 13 5		
Removing and relaying the 32″ Vehar main, south of Cooria	†2,00,000 0 0		
Water mains in connection with the Improvement Trust Schemes—			
9″ and 4″ mains in the new roads in the Agripada District	43,790 0 4		
4″ main in New Street near Lohar Chawl	2,551 10 0		
Mains in the 1st Nagpada Scheme	6,731 6 1		
4″ main along Wodehouse Road...	2,426 2 11		
4″ main in Sankli Street	1,140 11 7		
4″ main in Connaught Road Estate	1,666 9 8		
		11,74,755 15 2	
55 *Lakhs Loan*—			
48″ Tansa main at Chinchpokli to Grant Road and 32″ main from Grant Road to Malabar Hill	47,629 7 1		
32″ Outlet mains from Malabar Hill to Chowpati	16,622 14 6		
Laying new water mains and fixing hydrants in the roads, "City Improvement Scheme No. IV."	30,743 12 5		
Laying water mains in B Ward	1,00,708 0 0		
Laying water mains on the Colaba Reclamation	36,269 2 0		
Laying water mains in A Ward	1,48,053 0 0		
Construction of quarters for Water Works Office Staff on the Babula Tank Site	810 0 0		
Laying a 9″ main along Mount Road from its junction with Love Lane to the junction at Victoria Road and a 6″ main along Ghorupdeo Road to be joined to the 6″ main already laid in Albert Road..	15,972 15 0		
Laying an additional 9″ main on the 24″ main, somewhat north of Government House, Parel, to join the 4″ main in Lady Jamsetji Road...	13,094 10 0		
		3,69,403 13 0	
D—Water Works, &c.—Carried over Rs. ...		2,95,07,199 15 7	
		Carried over Rs. ...	3,37,06,447 0 9

* Exclusive of Rs. 3,40,000 paid out of the Premia received on the Loan.

† Exclusive of Rs. 3,74,000 paid from the contribution received from the G. I. P. Railway Co.

Appendix No. 10-A—*continued.*

	Amount.			Total.			Grand Total.		
	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Brought forward Rs. ...							3,37,06,447	0	9
D.—Water Works, &c.—*contd.*...				2,35,07,199	15	7			
70 Lakhs Loan.—									
Tansa Reduplication and Auxiliary Works—									
Duplicating Syphons Nos. 1 to 7...	2,82,474	13	9						
Do. Syphon No. 8	6,05,622	6	8						
Raising Tansa Dam	2,14,022	10	9						
Distributing mains in the City	2,52,456	9	11						
General Expenses	26,995	2	5						
				18,81,572	11	1			
Works executed out of Savings on Loans—									
Renewal of water mains in the Girgaum District for improvement of the water supply	48,390	2	11						
15" water main from 24" main in Bhoiwada to Elphinstone Road as far as new Parbhadevi Road and thence a 9" main to the Century Mill ...	49,452	0	2						
New mains in various places	28,803	1	1						
Covering storage basin at the Bhandarwada Reservoir and constructing filters over it	44,597	14	4						
Excess cost of Worli Road main...	21,696	4	1						
Residence of the Chief Inspector, Water Works, at Babula Tank Road, and rooms for 6 sluicemen	32,028	1	3						
24" and 27" mains from Malabar Hill Reservoir to Frere Fountain, Fort...	50,093	1	2						
Connections at Chinchpokli between Tansa and Vehar mains	7,402	1	4						
Laying water mains in Wellington Lines	4,397	9	5						
Do. do. in A Ward	42,943	13	1						
Renewing 3" main in B Ward with 4" pipes—extra cost chargeable to Capital	4,533	3	4						
Replacing 32" Vehar pipes for 1¼ miles by 48" C. I. pipes (north of Coorla).	2,82,483	15	0						
9" main in DeLisle Road	9,849	6	1						
4" main in Khara Talao Road	2,774	11	7						
Providing the trunk water mains with Venturi water meters	23,000	0	0						
Laying water mains in B Ward	17,213	12	8						
Extending the existing 9" main in the Agripada District along Gilder Street to join the existing 32" main in Grant Road	11,904	13	6						
Extending the existing 9" main in DeLisle Road to join with 15" main in Elphinstone Road	8,988	12	0						
Travelling expenses to an Inspector and a lascar for taking survey, &c., in connection with the storage reservoir and filter beds at Ghatkoper ...	35	0	6						
Constructing office, quarters and store-rooms for W. W. G. Ward, at DeLisle Road on the site of Foras Tank	19,415	3	11						
Extending the 9" main laid along the bank of the drainage channel across the proposed Foras Road from the Century Mill to join the existing 9" main at Worli	4,092	4	11						
				6,79,090	4	4			
Advanced from Surplus Balances—									
32" Outlet main from Malabar Hill to Chowpati	*Cr.* 700	0	0						
Extending 14" main in Parel Road	11,909	2	8						
Tansa Reduplication and Auxiliary Works—									
Reservoir at Ghatkoper	84	1	0						
Fixing Deacon's meters on the distributing mains	19,855	13	7						
Removing and relaying the 32" Vehar main south of Coorla (pending realisation by the sale of old pipes and lead)	*Cr.* 8,651	12	1						
Extending 32" main in Parel Road northward through DeLisle Road ...	1,218	3	10						
Connecting 12" main in Fergusson Road to 32" Vehar main in DeLisle Road	599	15	10						
Connecting a 5" Service main in Sandhurst Road	33,566	6	2						
Substitution of electrically driven Turbine Pump for plunger pumps and construction of a Water Tower on Malabar Hill Reservoir	18,838	14	5						
Improvement of water supply in Mahim District (12" main in Jambli Tank Road)	34	8	0						
				76,765	5	5			
D.—Water Works, &c.—Carried over Rs. ...				3,16,44,618	4	5			
Carried over Rs. ...							3,37,06,447	0	9

Appendix No. 10-A—*contd.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			3,37,96,447 0 9
D.—Water Works, &c.—*contd*...		3,16 44,618 4 5	
Paid out of the Worn-out Water Mains Renewal Fund—			
Laying a 9″ main along Mount Road from its junction with Love Lane to the junction at Victoria Road and a 6″ main along Ghorupdeo Road to be joined to the 6″ main already laid in Albert Road	6,446 14 1		
Laying a 6″ main in Matarpakhadi and a 12″ main along Mazagon Road from Nesbit Lane to Mount Road	5,696 15 4		
Cost of renewing 3″ main in Worli Road with 9″ pipes (chargeable to revenue)	26,517 3 9		
Replacing 3″ main in Zaoba's Carts by a 4″ one	672 7 6		
Mains in the 1st Nagpada Scheme	1,645 6 0		
Replacing the 5″ main in Janjikar Street and 3″ and 4″ main in Old Hanuman Lane by a 6″ main	4,359 1 2		
4″ main in New Street near Lobar Chawl	2,168 15 11		
Replacing 3″ main in Foras Road by a 6″ main	3,427 0 0		
Replacing the 3″ main in Chunam Kiln Road by a 5″ main	995 14 10		
Replacing a 3″ water main in Mazagon Road by 5″ main, &c.	2,133 4 1		
Laying water mains in A Ward	55,212 8 6		
Laying water mains in B Ward	56,936 11 5		
Replacing a 3″ water main in Mughbhat Cross Lane by a 5″ main ...	924 5 9		
Laying 3″ main in Gunpowder Road to be replaced by a 5″ main, &c.. &c.	1,730 5 8		
6″ water main in Soparibag Road from the Junction of Parel Govt. Gate Road with Elphinstone Road	3,833 15 3		
Laying a 9″ main in Cawasji Patel Street	2,817 1 10		
Replacing 3″ main in Husria Street by a 5″ main	1,141 9 8		
Laying 3″ and 4″ mains in Kamatipura Bazar Road by a 6″ main ...	2,447 1 6		
Replacing 3″ water main in the Mahomedan Street at Ripon Road by a 5″ main	1,266 1 4		
Replacing 3″ main in Bapu Khote Street by a 5″ main	1,136 8 0		
Replacing the 3″ pipe in Arthur Road by a 6″ one and extending it so as to join the 6″ main in Kalachowki Road	551 2 8		
Laying a 12″ main from the Tulsi Pipe line to Worli Road in place of the 6″ main in Fergusson Road	4,146 5 6		
Laying a 6″ water main in place of the existing 3″ main in Fanaswadi ...	1,352 1 0		
Laying a 5″ main in Tank Street	1,579 0 7		
„ 4″ „ „ Sheik Burhan Street	329 1 11		
Replacing 4″ „ „ by a 6″ main in Love Lane	2,318 9 8		
Replacing small service mains in various parts of the City	280 14 2		
Laying 5″ main in Vithoba Lane...	365 0 1		
Laying 5″ main in Temker Street	1,350 10 11		
Replacing 3″ main in Kika Street by a 5″ one...	2,402 6 0		
Replacing 3″ main by 5″ main in Guzar Street	966 15 5		
Laying 5″ main in Umeria Street	1,751 1 9		
		2,02,390 13 3	
Total for *D* ...			3,18,47,009 1 8
E.—Cemeteries (*Burning and Burial Grounds*)—			
15¾ *Lakhs Loan*—			
Burial ground for Mahomedans and Beni-Israels		2,11,652 4 5	
19½ *Lakhs Loan*—			
Purchase of two sites of land for burning and burial grounds at Mahim and Worli, including cost of enclosure walls, &c.		47,680 4 4	
25 *Lakhs Loan*—			
Purchase of land from Mr. Ashburner for extension of burial ground for Mahomedans	1,17,646 0 6		
Purchase of land in Narielwadi for future extension of burial ground for Mahomedans	1,60,577 5 10		
Extension of burial ground at the Sewri Cemetery	71,640 9 3		
		3,49,264 0 0	
55 *Lakhs Loan*—			
Providing a burial ground at Haines Road for the Portuguese Community	26,949 12 7		
Providing a burial ground for Mahomedans in F and G Wards at Antop Hill, Matunga	25,877 7 4		
Extension of the Sewri Cemetery	31,316 3 3		
		84,143 7 2	
Executed out of Savings on different Loans—			
Filling in the portion of the Haines Road Cemetery	4,999 4 0		
Providing a boundary wall at the Haines Road Cemetery	13,278 9 6		
		18,277 13 6	
Total for *E* ...			7,11,017 13 5
		Carried over Rs. ...	3,62,64,473 15 10

Appendix No. 10-A—*concluded.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			6,62,64,473 15 10
F.—Disposal of Town Sweepings—			
35 *Lakhs Loan*—			
Purchase of land on the Flats required for the disposal of Town sweepings.		1,95,913 8 6	
28½ *Lakhs Loan*—			
Purchase of land on the Flats for the deposit of kutchra		5,890 14 1	
25 *Lakhs Loan*—			
Disposal of Town sweepings at Deonar...		7,84,000 0 0	
19½ *Lakhs Loan*—			
Extra cost of the scheme for the disposal of Town sweepings at Deonar ...		53,619 13 4	
Executed out of savings on different Loans—			
20 additional wagons for the disposal of Town sweepings		38,684 2 0	
Total for *F* ...			10,81,108 6 1
G.—Miscellaneous—			
19½ *Lakhs Loan*—			
Purchase of land for the site of the Petit Hall and other charges in connection therewith		1,785 13 10	
55 *Lakhs Loan*—			
Filling in the Babula Tank with debris		58,857 15 9	
Executed out of savings on different Loans—			
Filling in Matarpakhadi Tank at Mount Road...	2,507 5 8		
Filling in Gilder Tank	15,488 9 4		
Filling in the portion of the old water-course situated at the north corner of the Foras Tank and west of Purbhadevi Night-soil Depôt in DeLisle Road	3,506 5 7		
		21,662 4 7	
Advances from Surplus Balances—			
Filling in the Gowalia Tank and making roads, &c., thereon		1,47,311 9 5	
Total for *G* ...			2,29,557 11 7
		Grand Total Rs. ...	6,75,75,140 1 6

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix No. 10-B.

STATEMENT showing the Invested Balances on 31st March 1914 as compared with those at 31st March 1913.

	On 31st March 1913.	On 31st March 1914.	More.	Less.
	Rs a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—SURPLUS FUNDS INVESTMENTS ...	37,98,940 2 5	58,07,764 11 2	20,08,824 8 9	.....
LOAN FUNDS INVESTMENTS	21,80,525 14 10	38,93,050 15 8	17,12,525 0 5	.....
Rs. ...	59,79,466 1 3	97,00,815 10 5	37,21,349 9 2	.....
B—SINKING FUND—				
5 per cent. Municipal Loans	63,28,800 7 7	67,99,353 14 2	4,71,553 6 7	.....
4 Do. do. 3½ % basis..	55,37,910 6 7	60,50,710 11 3	5,12,800 4 8	.....
4 Do. do. 3 % „	5,23,768 1 1	6,62,043 4 0	1,38,275 2 11	.....
3½ Do. do. ..	2,49,904 6 6	2,69,834 6 0	19,929 15 6	.....
Rs. ...	1,26,39,383 5 9	1,37,82,442 3 5	11,42,558 13 8	.....
C.—SPECIAL FUNDS—				
Municipal Buildings Fire Insurance Fund	1,67,011 9 2	1,82,857 3 10	15,845 10 8	.....
Worn-out Water Mains Renewal Fund	5,36,515 3 1	5,40,011 14 5	3,496 11 4	.....
Net Premia Fund	2,05,858 3 2	1,44,250 3 7	.....	61,607 15 7
Rs. ...	9,09,385 4 5	8,67,119 10 10	19,342 6 0	61,607 15 7
Rs. ...	1,95,28,734 11 5	2,43,50,377 8 8	48,83,250 12 10	61,607 15 7
Contractors', &c., Deposits in Government and other Securities	3,53,800 0 0	6,69,400 0 0	3,15,600 0 0	.....
Total Rs. ...	1,98,82,534 11 5	2,50,19,777 8 8	51,98,850 12 10	61,607 15 7

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

Appendix No.
WATER WORKS

INCOME FOR 1913-14.

INCOME.	Amount. Rs. a. p.	Grand Total. Rs. a. p.
Water Tax and other Miscellaneous Water Works Revenue—*vide* details in Appendix No. 13 (*vide* page 116)	* 22,86,434 0 0	
Interest on the Investment of the unexpended balances of the different Water Works Loans ...	† 62,563 1 1	23,47,997 1 1

* This includes Rs 16,83,979-12-10 being the amount of Water Tax by measurement, realized during 1913-14 as shown in the following Statement :—

STATEMENT showing the quantity of Water by meter supplied under different Sub-heads and the Water Tax by measurement realized thereon at different rates for the uniform quantity of 1,000 gallons.

PARTICULARS.	1908-09.		1909-10.		1910-11.		1911-12.		1912-13.		1913-14.		
	Gallons.	Amount.	Gallons.	Amount.	Gallons.	Amount.	Gallons.	Amount.	Gallons.	Amount.	Gallons.	Amount.	
		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.	
Hotels	2,03,29,891	@ As. 10 & As. 8 14,941 4 1	2,58,16,225	@ As. 8 12,903 1 9	2,10,89,119	@ As. 8 10,519 9 0	2,57,04,817	@ As. 8 12,857 2 6	8,25,40,010	@ As. 8 16,246 4 1	8,44,93,550	@ As. 8 17,246 12 5	
Cotton Factories	42,51,34,112	@ As. 10 & As. 8 2,30,738 1 1	40,01,38,143	@ As. 8 2,00,069 1 10	41,73,58,442	@ As. 8 2,06,676 11 5	44,40,61,597	@ As. 8 2,22,030 12 9	51,26,44,896	@ As. 8 2,69,822 8 2	52,06,83,100	@ As. 8 2,60,341 8 10	
Flour Factories	1,34,71,028	@ As. 10 & As. 8 10,886 15 8	1,37,41,562	@ As. 8 6,870 12 5	1,46,64,996	@ As. 8 7,332 0 2	1,61,25,503	@ As. 8 8,062 10 5	2,16,24,000	@ As. 8 10,812 0 0	1,36,03,031	@ As. 8 6,801 15 4	For trade purposes.
Other Factories	20,78,89,728	@ As 10 & As. 8 1,08,630 9 0	22,96,32,857	@ As. 8 1,14,816 7 8	23,24,69,449	@ As. 8 1,16,234 11 7	24,87,86,973	@ As. 8 1,24,393 7 11	25,89,50,587	@ As. 8 1,29,476 13 6	26,44,71,739	@ As. 8 1,32,235 18 11	
Milch Cattle Stables ...	6,62,12,618	@ As. 8 28,106 5 1	6,92,51,787	@ As. 8 34,625 14 7	6,67,92,152	@ As. 8 33,396 1 4	7,50,10,128	@ As. 8 37,505 1 1	8,41,29,876	@ As. 8 & As. 4 31,478 3 10	9,38,30,760	@ As. 4 23,457 11 0	
Government Buildings (a).	21,22,62,698	56,123 2 1	23,51,75,378	47,005 4 5	21,46,38,786	46,703 12 4	23,09,76,361	50,244 2 4	24,15,70,114	55,054 6 2	22,82,24,226	50,623 13 10	
Railways	83,01,50,475	@ As. 10 2,22,539 5 1	84,43,09,317	@ As. 9 2,04,517 5 2	89,54,87,260	@ As. 8½ 1,91,765 6 9	88,56,11,852	@ As. 6½ 1,86,654 12 8	‡ 42,87,15,291	@ As. 6½ 1,72,158 10 7‡	45,15,31,531	@ As. 6½ 1,99,603 6 9	
Port Trust...	18,99,66,946	@ As. 9½ 83,165 6 11	18,73,73,035	@ As. 7½ 81,565 3 10	18,76,22,994	@ As. 6½ 87,060 14 7	16,04,79,944	@ As. 6½ 65,196 0 3	16,41,94,267	@ As. 6½ 66,768 14 6	16,52,52,785	@ As. 6½ 67,158 15 1	
Suburbs (b)	10,52,51,058	77,812 2 7	10,94,71,802	83,264 5 4	10,81,22,707	83,219 5 0	13,46,84,103	1,07,703 14 6	12,48,37,149	86,517 14 10	15,25,01,674	1,11,547 14 2	
Miscellaneous (c)... ...	76,83,55,282	2,27,351 5 11	78,93,62,722	2,15,581 15 1	78,62,11,084	1,98,093 10 2	88,64,20,85[illegible]	2,18,075 14 8	81,64,01,096	2,16,388 2 2	78,24,53,235	2,14,474 13 6	A.
Total ..	2,29,85,21,686	10,59,163 6 6	2,81,51,73,488	10,01,174 8 1	2,33,84,01,405	9,63,002 2 4	2,55,32,01,4[illegible]	[illegible]6,887 15 1	2,68,71,10,874	10,16,536 8 10	2,75,18,46,421	10,65,979 12 10	

(a) The rates charged are in accordance with the Water Rules for the respective years.
(b) The rates charged vary from As. 12 to Re. 1.
(c) The rates charged vary from As. 2 to As. 10.

‡ This includes 1,11,000 gall[illegible] rate of As. 10 per 1,000 gallons, *i.e.*, Rs. 69-6-0 for the year 1909-10.
A. This figure is exclusive o[illegible] of Rs. 97-4-1.

Total Rs. ...	23,47,997 1 1

† *Vide* note at page 120.

W. E. WAITE,
Chief Accountant.

11.
ACCOUNT.

EXPENDITURE FOR 1913-14.

EXPENDITURE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
General Superintendence (proportion of)(*vide* note * at page 117).	38,957 6 0			
Assessment and Collection Charges (proportion of) (*vide* note † at page 117)	64,623 11 2			
Engineer's Establishment (proportion of)(*vide* note ‡ at page 117)	15,085 5 4			
		1,18,666 6 6		
Maintenance of Water Works (*vide* page 119)		3,56,900 8 5		
New Works (*vide* page 121)		61,377 1 4		
			5,36,844 0 3	
Interest on Water Works Loans (Debt)—				
Due to Government—Vehar Debt	.....	90,237 5 9		
Due to the Public—				
Portion of 10 Lakhs for Bhandarwada Water Works of the Loan of Rs. 26,94,000 of 1878	14,922 0 9			
Water Works portion of the 44 Lakhs Sanitary Works Loan (Rs. 18,98,921)	31,570 2 0			
Water Works portion of the 7 Lakhs Sanitary Works Loan (Rs. 1,90,389)	8,642 4 9			
Water Works portion of the 12 Lakhs Drainage and Water Works Loan (Rs. 85,000)	4,182 11 4			
Tansa Water Works Loan of Rs. 147 lakhs	7,88,275 0 0			
Water Works portion of the Rs. 10,08,500 Miscellaneous Works Loan (Rs. 1,35,000)	6,642 12 6			
Water Works portion of the 35 Lakhs Various Sanitary Works Loan (Rs. 9,20,000)	42,617 2 3			
Water Works portion of the 42 Lakhs Loan for repayment of Government Consolidated Loan (Rs. 28,59,760) ...	1,10,372 14 11			
Water Works portion of the 23½ Lakhs Loan for Drainage and other Works (Rs. 2,45,500)	9,837 15 2			
Water Works portion of the 15¼ Lakhs Loan for Sewerage, Wari Bunder, &c., Works (Rs. 30,000)	1,105 2 2			
Water Works portion of the 25 Lakhs Loan for Sewerage, &c., Works (Rs. 2,31,297)	9,238 14 10			
Water Works portion of the 24¾ Lakhs Loan for certain Sewerage and Water Works (Rs. 2,73,000)	10,519 3 10			
12½ Lakhs Loan for certain Water Works (Rs. 12,75,000) ...	51,126 0 0			
55 Lakhs Loan for Miscellaneous Works (Rs. 4,49,542) ...	12,536 10 8			
29 Lakhs Loan for Reduplication of the Tansa Main and other auxiliary works	13,456 0 11			
		11,15,039 1 8		
		(a) 12,05,276 6 8		
Commission to the Bank of Bombay for payment of Interest on the Water Works portion of the different Loans	5,565 14 4			
Miscellaneous Loan Charges, including Commission paid to the Bank of Bombay for drawing Interest on Sinking Fund Investments	331 14 3	(a)5,897 12 7		
			12,11,174 3 3	
Payments towards the reduction of debt or investment of Sinking Fund of the following Water Works Loans:—				
Vehar Debt	.....	23,738 11 0		
Portion of the 10 Lakhs for Bhandarwada Water Works of the Loan of Rs. 26,94,000 of 1878	.....	49,926 12 2		
Water Works portion of the 44 Lakhs Sanitary Works Loan (Rs. 18,98,921)	.....	17,601 13 10		
Do. do. 7 lakhs Sanitary Works Loan (Rs. 1,90,389)	.....	2,277 9 6		
Do. do. 12 Lakhs Drainage and Water Works Loan (Rs. 85,000) ...	.....	902 12 4		
Do. do. Rs. 10,08,500 Miscellaneous Works Loan (Rs. 1,35,000)...	.....	1,463 1 8		
Tansa Water Works Loan of Rs. 147 Lakhs	.....	64,720 0 0		
Water Works portion of the 35 Lakhs Various Sanitary Works Loan (Rs. 9,20,000)	.....	11,446 6 0		
Do. do. 42 Lakhs Loans for repayment of Government Consolidated Loan (Rs. 28,59,760)	.....	55,538 4 6		
Do. do. 23½ Lakhs Loan for Drainage and other Works (Rs. 2,45,500)	.....	2,912 3 5		
Do. do. 15¼ Lakhs Loan for Sewerage, Wari Bunder, &c., Works (Rs. 30,000)	.....	345 2 10		
Do. do. 25 Lakhs Loan for Sewerage, &c., Works (Rs. 2,31,297)	.....	2,701 0 1		
Do. do. 24¾ Lakhs Loan (Rs. 2,73,000).	.....	3,184 0 1		
Do. do. 32½ Lakhs Loan	.....	24,000 0 0	(a)2,61,456 13 5	
				20,09,475 0 11
Balance—Income in excess of Expenditure ...				3,38,522 0 2
			Total Rs. ...	23,47,997 1 1

(a) *Vide* notes *, †, and ‡ at page 127.

P. R. CADELL,
Municipal Commissioner.

Appendix

WATER WORKS

SCHEDULE OF LIABILITIES AND

LIABILITIES.	Rs	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Debt due to Government—									
Government of Bombay on account of Vehar Debt (see page 84)				22,42,677	8	9			
Debt due to the Public—									
Portion of 10 lakhs for the Bhandarwada Water Works of the Loan of Rs. 20,94,000 of 1878	2,45,917	10	5						
Water Works portion of the 44 lakhs Sanitary Works Loan	16,13,651	4	7						
Water Works portion of the 7 lakhs Sanitary Works Loan	1,90,389	0	0						
Water Works portion of the 12 lakhs Drainage and Water Works Loan	85,000	0	0						
Water Works portion of the Miscellaneous Works Loan of Rs. 40,08,500	1,35,000	0	0						
Water Works portion of the 35 lakhs Various Sanitary Works Loan	9,20,000	0	0						
Tansa Water Works Loan of 147 lakhs	1,47,00,000	0	0						
Water Works portion of the 42 lakhs Loan for repayment of the balance of Government Consolidated Loan ...	28,59,762	0	0						
Water Works portion of the 23½ lakhs Loan for Drainage and other Works	2,45,500	0	0						
Water Works portion of the 15¾ lakhs Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works	30,000	0	0						
Water Works portion of the 25 lakhs Loan for Sewerage, Roads and other Works	2,31,297	0	0						
Water Works portion of the 24¾ lakhs loan for certain Sewerage and Water Works	2,73,000	0	0						
12½ Lakhs Loan for certain Water Works	12,75,000	0	0						
Water Works portion of the 55 Lakhs Loan for Mis. works.	4,49,542	0	0						
70 Lakhs Loan for the Reduplication of the Tansa main and other auxiliary works. (1st Instalment) ...	29,00,000	0	0						
				2,61,54,058	15	0			
							2,83,96,736	7	9
Balance—Assets in Excess of Liabilities ...							1,06,66,282	9	7
						TOTAL Rs.	3,90,63,019	1	4

W. E. WAITE,
Chief Accountant.

No. 12.

ACCOUNT.

ASSETS AT 31ST MARCH 1914.

ASSETS.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Properties—			
Water Works executed out of Loan and Reserve Funds as detailed at pages 106 to 109 (*vide* Appendix No. 10-A) ...			(a) 3,18,47,069 1 3
II. Investments—			
1. Bank of Bombay, Municipal Loans Sinking Fund Deposit Accounts—			
Rs. a. p.			
5 per cent. Loans 31,69,028 0 0			
4 „ „ 20,31,619 0 0			
3½ „ „ 8,098 0 0			
	(b) 52,08,745 0 0		
2. Bank of Bombay Worn-out Water Mains Renewal Fund Deposit Account (*vide* page 97)	5,40,011 14 5		
3. Bank of Bombay Net Premia on different Municipal Loans Deposit Account (*vide* page 97)	55,166 6 0		
		58,03,923 4 5	
4. Loan Funds Investments Deposits (*vide* page 95) ...	14,88,842 0 8		
Less—Value of properties (Water Works) executed out of Loan Funds Advances (*vide* page 108)	76,755 5 5		
		14,12,086 14 3	
			72,16,009 15 8
		TOTAL RS. ...	3,90,63,019 1 4

(a) Exclusive of charges met out of the contribution from the G. I. P. Railway Company for removing and relaying 32" Vehar Main at, Goorla. When this work is completed and the difference between the value of the old and new work is ascertained, necessary adjustment for treating the item as "Assets" will be made.

(b) *Vide* page 95.

P. R. CADELL,
Municipal Commissioner.

Appendix

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS

ending 31st

RECEIPTS.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND.				
Cash Balance (in Bank and Office Treasuries) on 1st April 1918				4,51,938 5 7
GENERAL TAX—				
From the Public		44,33,402 2 8		
,, Government of Bombay		2,19,159 1 7		
,, Port Trust		2,32,764 0 0		
			48,85,305 4 3	
WHEEL TAX AND TOLLS—				
WHEEL TAX—				
Through Assessor and Collector (Private Conveyances)	2,41,175 11 11			
Through the Chief Accountant (Public Land Conveyances)	2,97,990 10 8			
		5,39,166 6 7		
TOLLS—(Through Contractors)		22,333 5 4		
			5,61,499 11 11	
TOWN DUTIES (Gross Collections)		40,49,412 14 0		
Less—Refunds		23,18,775 14 0		
			17,30,637 0 0	
LICENSES—				
(*a*) Taxes on Trades and Professions		1,22,216 2 0		
(*b*) Land Conveyance, Music, &c., Licenses (issued by the Commissioner of Police)—				
(1) Music Licenses		7,555 0 5		
			1,29,771 2 5	
LIQUOR LICENSES—Receipts from Government ...			1,43,759 0 0	
TOBACCO DUTY LICENSES—Receipts from Government (through Commissioner of Customs)			2,91,283 3 11	
HALALKHORE TAX—				
On value		11,80,308 3 2		
For special services		2,04,819 12 4		
			13,85,127 15 6	
WATER TAX AND OTHER MISCELLANEOUS WATER WORKS REVENUE—				
Water Tax through Assessor and Collector—				
On value 10,88,971 15 8				
On meter measurement 10,85,979 12 10				
Compounded Tax 12,104 7 10				
	21,82,056 4 4			
Water charges recovered through Water Engineer ...	20,051 5 5			
	22,02,107 9 9			
Rent of Water Meters	33,198 4 8			
Miscellaneous	10,707 7 4			
		22,46,013 5 9		
Sale-proceeds of and produce of lands		39,268 10 3		
Rent of lands and buildings		152 0 0		
			22,85,434 0 0	
MARKET RECEIPTS—				
Stall rents	1,94,921 0 6			
Squatters' fees	56,080 5 4			
Fair Ground and Feeding Fees from Contractors ...	95,808 5 4			
Miscellaneous	35,536 12 0			
		3,82,346 7 2		
Slaughter fees		2,12,734 6 0		
Rent of lands and buildings		3,158 0 0		
Sale-proceeds and produce of lands		1 0 0		
			5,98,239 13 2	
Carried over Rs. ...			1,20,11,048 3 2	4,51,938 5 7

No. 13.

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1914.

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
DISBURSEMENTS.				
MUNICIPAL FUND.				
GENERAL SUPERINTENDENCE—				
Standing Committee and Corporation Establishment ...		80,473 11 4		
Municipal Commissioner's Personal Office Establishment		69,094 4 4		
General Office Establishment		71,877 0 9		
Accounts and Expenditure Audit Establishment ...		90,214 3 6		
			* 3,14,659 3 11	
ASSESSMENT AND COLLECTION DEPARTMENT—				
Property and Wheel Tax Establishment	† 2,15,079 4 1			
Town Duty Collection	1,28,221 3 8			
Licensing Establishment	22,971 11 5			
Revenue and Refund Audit Establishment	‡ 74,888 13 1			
		4,47,161 5 3		
TOLLS COLLECTION—				
Establishment and other charges		682 13 7		
			4,41,694 2 10	
FIRE BRIGADE		1,84,849 11 3		
Add—Transferred from Interest on Loans, (page 127)—				
(1) Interest on the Fire Brigade portion of the 55 lakhs loan	5,889 0 0			
(2) Interest on the Fire Brigade Loan of 4½ lakhs...	16,510 0 0			
		22,399 0 0		
MAINTENANCE OF PUBLIC GARDENS—			¶ 1,56,239 11 3	
(*a*) VICTORIA GARDENS—				
Maintenance		70,009 12 5		
(*b*) ELPHINSTONE CIRCLE GARDEN...		1,232 7 4		
(*c*) FALKLAND ROAD GARDEN		181 12 9		
(*d*) NORTHBROOK GARDEN		1,205 14 11		
(*e*) SIR COWASJEE JEHANGIR GARDEN		197 14 9		
(*f*) BAZAR GATE GARDEN		198 1 11		
(*g*) DICK'S TANK GARDEN		160 2 3		
(*h*) MALABAR HILL GARDEN		616 5 4		
(*i*) ESPLANADE GARDEN		4,951 10 4		
(*j*) CHOWPATI BAND STAND		1,221 2 7		
(*k*) FLORA and WELLINGTON FOUNTAINS and THE QUEEN'S STATUE		1,152 14 14		
			81,128 0 6	
PUBLIC WORKS (ENGINEER'S DEPARTMENT)—				
I. GENERAL SUPERVISION AND MISCELLANEOUS DUTIES		§ 90,512 1 2		
II. MECHANICAL BRANCH—				
For *A*—Workshops—see page 129				
„ *B*—Maintenance of Compressor Station, Colaba (Shone System)	24,861 1 6			
„ *C*—Maintenance of Love Grove Pumping Station	1,76,564 1 1			
„ *D*—Maintenance of Air Compressor Station at Love Grove (Shone System)	89,296 9 0			
„ *E*—Maintenance of Storm Water Sluices	2,165 11 1			
		3,02,887 3 8		
III. SANITARY—Disposal of Town Sweepings		86,395 11 9		
IV. DRAINAGE—				
A. Miscellaneous Drainage	2,62,664 5 1			
B. Maintenance of Sluices	2,434 4 3			
		2,65,098 9 4		
Public Works (Engr.'s Dept.) *contd.* and carried over Rs.		7,44,393 12 11		
Carried over Rs. ...			9,91,721 2 6	

* Of this, Rs. 38,957-6-0 are charged to Water Works Account.

† Do. Rs. 64,523-11-2 do. do. do.

‡ Includes Rs. 57,474-0-5 on account of Town Duty Refund Establishment.

¶ Or Rs. 1,65,023-15-6 including the Sinking Fund Instalment of Rs. 8,284-4-3 shown in the Sinking Fund investments aggregating Rs. 11,42,558-13-3, *vide* page 129.

§ Of this, Rs 15,036-5-4 are chargeable to Water Works Account.

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS

ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward. Rs.			1,20,11,048 3 2	4,51,938 5 7
PUBLIC GARDENS—				
VICTORIA GARDENS—				
Sale-proceeds of Plants, Flowers, &c.		4,759 0 4		
Rent of Chawls from Malees, &c.		459 10 0		
Fees for Elephant ride		1,371 11 0		
Rebate towards the cost of the Maintenance of the Museum Garden		600 0 0		
Fees for Camel ride		98 3 0		
Fees for admittance		2,736 2 6		
Right of selling refreshments		750 0 0		
			10,769 16 10	
TRAMWAY RENT			54,592 11 3	
MISCELLANEOUS FINES AND PENALTIES			34,926 12 6	
MISCELLANEOUS RECEIPTS—				
General Sales Account—				
Sale of Land	24,785 3 1			
Miscellaneous	14,120 14 0			
		38,906 1 1		
On account of Health Department—				
Rent of Chawls, Milch Cattle Stables and Dhobiwada	71,289 6 10			
Sale-proceeds of land and produce of land	28,623 14 8			
Sale of Bones, Manure and Cowdung Cakes, &c.	5,018 12 6			
Cleaning Drains	4,096 1 6			
Miscellaneous	11,549 5 2			
		1,15,527 8 2		
On account of Engineer's Department—				
Cleveland Bunder Fees Rs. 1,545 9 0				
Other Ground rent „ 46,357 5 2				
	47,902 14 8			
Right of catching fish, cutting grass, collecting fruits, drawing toddy, &c.	14,041 8 0			
Miscellaneous	14,475 1 0			
		76,419 7 8		
On account of Drainage Department—				
Ground rent and Rent of Buildings	235 6 9			
Miscellaneous	7,923 12 0			
		8,159 2 9		
Miscellaneous—				
Sundries		7,797 2 6		
			2,46,809 6 2	
MISCELLANEOUS FEES—				
Through Assessor and Collector—				
Buttakee, Notice, &c., Fees		5,244 2 0		
Through Executive Engineer—				
Projecting Verandahs, Balconies, &c.	21,818 2 7			
Opening Roads	1,692 0 0			
Scaffoldings	10,275 13 8			
Occupying Public Roads	2,845 8 0			
Sundries	252 0 0			
		36,885 8 3		
Through Health Officer—				
Digging Graves	4,166 12 0			
Removing Dead Animals	7,813 12 0			
Skinning Dead Animals	60,000 0 0			
Supplying copies of Office Records, &c.	1,480 2 0			
Municipal Laboratory Fees	1,516 0 0			
Fees for Vaccine Instructions	385 0 0			
Fees for vaccinating persons at private places	541 2 0			
Fees for admission to the Sanitary Department	180 0 0			
Fees for Clinical Instructions	570 0 0			
		76,172 12 0		
Miscellaneous—				
Supplying copies of Office Records, &c., of different Municipal Departments		886 4 0		
			1,18,187 10 3	
Carried over Rs.			1,24,76,828 6 2	4,51,938 5 7

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1914—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and brought forward ... Rs.			9,91,272 2 6	
PUBLIC WORKS (Engineer's Department)—*contd.* and brought forward... ... ... Rs.		7,44,393 12 11		
V—WATER WORKS...		*3,56,900 8 5		
VI.—STREETS AND BUILDINGS—				
A. Inspection and Supervision	1,91,473 2 9			
B. Public Lighting	4,2[illegible],188 1 6			
C. Road Watering	1,22,869 5 9			
C. I. Oiling and Tarring Roads (experimental) ...	41,118 13 10			
D. Roads, footpaths, &c.	6,47,010 14 2			
E. Improvement of Streets	1,35,694 9 0			
F. Miscellaneous—				
Compensation to Municipal staff employed on extricating bodies of persons overwhelmed in the debries of fallen buildings, &c, ...	549 4 8			
		15,53,854 3 8		
VII.—Cleaning, Lighting and Repairing Port Trust Wharves Roads		40,183 0 0		
			26,95,881 9 0	
NEW WORKS—				
GENERAL SUPERINTENDENCE—				
General Office Establishment—				
Renewing the terrace roof over the retiring room of the Assessor and Collector and removing and replacing tanks thereat over rolled steel joists. Rs. a. p. 212 7 3				
Renewing the terrace roof over the retiring room of the Water Engineer in the Municipal Office Building and removing and replacing tanks thereat over rolled steel joists... ... ... 267 7 10				
	479 15 1			
		479 15 1		
Licensing Establishment—				
Construction of a Ward Office for F and G wards ...		8 0 0		
Fire Brigade—				
Constructing a Drill Tower at Haines Road Fire Brigade Station and other works in connection therewith		1,079 12 6		
Public Gardens—				
Setting up the stone Elephant in the Victoria Gardens on a raised mound	386 12 5			
Improvement in the Zoological portions of the Victoria Gardens	564 12 11			
Providing 25 benches at Chowpati Band Stand ...	688 0 0			
Constructing three new latrines in the Victoria Gardens	415 13 5			
Constructing a storm-water drain in the Victoria Gardens	3,118 5 1			
Construction of Overseer's quarters in the Victoria Gardens	5,381 1 0			
		10,594 10 10		
General Supervision and Miscellaneous Duties—				
Enclosing the East and West corridors of the Executive Engineer's Office		736 14 2		
New Works—*continued* and carried over ... Rs. ...				
Carried over Rs. ...		12,354 6 7	36,36,252 11 6	

* Chargeable to Water Works Account.

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS

ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward. Rs.			1,24,76,328 6 7	4,51,988 5 7
MISCELLANEOUS SAVINGS			12,447 7 4	
CONTRIBUTION from Municipal Servants towards Pension, &c., Fund			40,788 13 11	
INTEREST on Investments of Surplus Loan and other Balances—				
Loan Funds Investments		† 1,63,591 6 3		
Surplus Funds Investments		1,42,299 14 11		
			3,06,891 5 2	
PROFIT on Municipal Workshops			3,165 13 3	
SALE-PROCEEDS of Unserviceable Tools, Plant, &c. ...			4 839 15 1	
ACTUAL Profit on Sale of Stores to Contractors			4,400 10 7	
INTEREST at 3 per cent. on Corporation lands made over to C. I. Trust			27,667 9 5	
INCOME AND EXPENDITURE ACCOUNT—				
(Interest and Instalments on account of Sinking Fund).			1,47,70,091 7 2	
				2,76,46,592 8 1
Carried over ...Rs.				2,80,98,580 13 8

† Includes Rs. 62,563-1-1 received on the Water Works portion of Loan Funds Investments.

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1914—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward. Rs.			36,36,552 11 6	
NEW WORKS—*continued* and brought forward ...Rs.		12,354 5 7		
Drainage—				
Miscellaneous Drainage Works	6,334 12 6			
Providing a covered drain for draining the subsoil water in Nepean Sea Road opposite H. H. the Nizam's bungalow	45 6 9			
Construction of permanent man-holes over the storm-water drains	2,592 11 1			
Substituting ejectors of 700 gallons capacity in place of the existing ones of 250 gallons in Mazagon No. 2 District	5,935 12 7			
Laying a 9" pipe sewer at Arthur Road from Jacob Circle to the North of Milch Cattle Stables ...	7,999 2 10			
Extending the culvert of the Junction of Arthur Road and De'Lisle Road	5,171 13 6			
Constructing a storm water drain with half-sized water gullies and water tables at Trinity Street ...	1,146 15 4			
Providing a covered storm water drain in portions of Churney Road and Khetwadi main Road from Khetwadi Back Road to Chunam Kiln Road ...	2,136 11 2			
Filling in Road side drain and providing a new masonry drain with water entrances and water tables at Thakurdwar Road	3,760 4 3			
Constructing a storm water drain with 3 man-holes over it at Wari Bunder cross passage and providing 4 half-sized water entrances with 9" C. I. storm water connections at Wari Bunder Road	3,871 13 3			
Constructing a wooden fence and brick masonry wall for the compound of the Chief Inspector's Chowky at Babula Tank Road	2,626 9 10			
Laying a storm water pipe drain along Mahim Bazar Road	4,296 8 10			
Filling in open side drain and constructing a masonry covered drain with water gullies and water tables in Arab Lane...	3,755 7 7			
Constructing a storm water drain along the passage on the North of water tank near Gowalia Tank Road ...	3,603 9 0			
Providing a storm water drain and 2 full-sized and half-sized water entrances with water tables at Ripon Road Cross Lane, East	2,645 5 9			
Providing a storm water drain with water gullies and water tables at Gilder Street	3,644 7 0			
Providing a storm water drain in Gowalia Tank Road from the existing storm water drain up to the proposed pas-sage	3,725 8 11			
Shifting the water entrances at Lansdowne Road ...	1,256 1 4			
Renewing storm water arch drain with a man-hole and outfall behind the Marine Lines station at Canady Sea Face	4,020 15 3			
Strengthening a relieving arch at Falkland Road ...	4,488 12 11			
Providing fair weather C. I. concrete covers and frames for water entrances and removing obsolete perforated stones and constructing new *type* water gullies in the whole of A Ward	2,496 4 3			
		75,555 3 11		
Water Works—				
Laying 4" main in Arab Lane	46 4 6			
Laying 9" and 5" mains in Hansraj Lane	1,172 15 10			
Laying a 5" main in Zaoba's Cart	35 13 10			
Laying 5" main in Kika Street	429 9 0			
Laying water mains in the Chowpatti Estate	3,350 12 2			
Diverting the 14" Main in Belvedere Road	2,786 13 2			
Providing mosquito proof gauze wire to the ventilators and other openings in the roof of the Malabar Hill Reservoir	1,716 8 1			
Laying a 6" Main in Forjett Street and Forjett Cross Lane...	4,981 10 11			
Laying out a garden at Bhandarwada Reservoir ...	1,287 7 5			
Constructing a culvert over Tansa mains at Arthur Road Level Crossing	11,928 5 10			
Covering the Municipal well at Matharpakhady ...	818 4 11			
Laying 5" Main from Carnac Road to Juma Masjid ...	2,866 11 2			
Completing water proofing works at Malabar Hill Reservoir	5,596 10 0			
Rendering reservoirs and filters at Malabar Hill water tight	14,178 2 5			
Laying a 5" main in Temker Street	768 2 4			
Laying a 6" water main in Reay Road	4,481 5 3			
Laying a 5" main in Undria Street	648 12 2			
Laying a 5" main in Tank Street...	841 12 4			
		*61,877 1 4		
NEW WORKS—*contd.* and carried over ... ... Rs.		1,49,786 8 10		
NEW WORKS—contd. and carried over Rs....			36,36,552 11 6	

* Chargeable to Water Works Account.

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS
ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward Rs.				2,60,98,580 13 8
Carried over Rs. ...				2,60,98,580 13 8

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1914—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward Rs.			36,86,552 11 6	
NEW WORKS—*continued* and brought forward — Rs.		1,49,786 8 10		
STREETS AND BUILDINGS—				
Purchase and fixing of new street Name Boards ...	881 4 2			
Constructing a cab-stand with pavement in Cathedral Street	462 15 9			
Improvement of Roads, &c., at Bhatia Baug	39,276 3 8			
Making a kutcha foot-path with Kerb stones and water tables at the North of Wari Bunder Road ...	2,021 13 2			
Improving the gradients at Worli Road...	690 3 11			
Improvements at Mayo Road	2,888 4 1			
Putting up eight 4' water tanks in F and G Wards and two at the Napier and Beach Road and two at Fort Street	192 6 4			
		46,413 8 1		
SANITARY AND OTHER MISCELLANEOUS WORKS—				
Constructing a latrine and a pail depôt at Ghorupdeo Road...	14,184 8 4			
Paving and enclosing dust-bin carts stands	114 9 4			
Extension of Municipal Laboratory in the Municipal Office Building	2,918 11 8			
Extension of Dhobiwada at Mahaluxmi by 50 stones...	11,541 11 9			
Constructing a shed for motors	37 0 8			
Construction of a horse stable in F Ward with 8 stalls	2 0 0			
Constructing a new hospital for Cattle at Tardeo Flats.	36 1 0			
Making a stone pavement round the latrines at Vadalla.	1,129 12 6			
Providing a tiled roof over the Tardeo Flats Biggaries' Chawl	2,025 15 7			
Paving with set stones the rear portion of Dadar Stable yard next to the water tank	895 13 1			
Rebuilding of the Wards at the Maratha Hospital ...	47 0 8			
Pulling down a 20-seated old pattern latrine and re-constructing a new one on trough pattern in Halal-core barracks in Suklajee Street	4,443 5 7			
Construction of public latrines and urinals	1,340 2 7			
Construction of five cutchra waggons for the disposal of Town sweepings	1,768 5 0			
Making certain additions and alterations to the pail depôt at Banganga Tank, Malabar Hill	429 8 3			
Constructing a pail depôt at Belvedere Hill Road ...	1,383 3 7			
Construction of a hopper to the North of the Pilot Bunder Pier, Colaba, on Military lands	4,774 11 11			
Constructing temporary huts for housing the beggaries and cart drivers, B Ward, North	2 10 10			
		47,075 4 4		
NEW WORKS—*contd.* and carried over Rs.		2,43,275 5 3		
Carried over Rs. ...			36,86,552 11 6	

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward Rs.				2,80,98,580 13 8
Carried over Rs....				2,80,98,580 13 8

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1914—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and Brought forward Rs. ...			36,86,552 11 6	
NEW WORKS—*contd.* and Brought forward Rs. ...		2,43,275 5 3		
GENERAL STORES—				
Raising the floor of the godowns of the Bellasis Bridge Stores Depôt		364 8 4		
MARKETS—				
Constructing a buffalo shed in the Compound of the Bandora Slaughter Houses	3,766 10 9			
Remodelling the drainage arrangements of the Crawford Market Main Building	7,491 9 6			
Inserting an ornamental panel over the entrance of the Arthur Crawford Markets	2,775 0 0			
Construction of a Slaughter House at Arthur Road for killing pigs	35 13 6			
Draining the Kitchen Sink in the Superintendent's quarters and providing nahanis, &c.	336 9 5	14,405 11 2	2,58,045 3 9	
PUBLIC HEALTH DEPARTMENT—				
I. General Supervision		1,34,829 8 5		
II. Conservancy Branch—				
Veterinary Establishment...	19,088 9 11			
Other Conservancy Charges	16,78,690 10 10			
		16,88,779 4 9		
III. Markets and Slaughter Houses		1,93,938 2 10		
IV. *Registration of Births and Deaths*		33,163 3 2		
V. Cemeteries		13,901 11 4		
VI. Laboratory		16,404 0 8		
VII. Mahaluxmi Dhobiwada		14,297 12 1		
VIII. Infectious Diseases		54,337 1 8		
IX. Milch-Cattle Stables and Rooms		6,180 14 1		
X. Dispensaries		14,262 12 10		
XI. Rustomji Jamshetji Dharamshalla, Falkland Road.		612 3 2		
XII. Vaccination		31,863 6 4		
XIII. Malaria		56,557 4 6		
XIV. Plague Charges		1,24,682 0 9		
			24,33,310 6 7	
GENERAL STORES—				
Establishment and Contingencies			35,093 6 3	
EDUCATION—				
Prince of Wales Museum	25,000 0 0			
Victoria and Albert Museum	15,617 6 6	40,617 6 6		
Other Institutions		4,44,667 15 5	4,85,285 5 11	
HOSPITALS, &c.			4,41,810 0 0	
CONTRIBUTION to the City Improvement Trust ...			9,32,093 10 11	
PENSIONS, &c.			1,07,498 11 10	
Carried over Rs. ...			88,80,219 8 9	

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS
ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward Rs.				7,80,98,580 13 8
Carried over ... Rs.				7,80,98,580 13 8

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1914—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and Brought forward Rs....			88,80,228 8 9	
MISCELLANEOUS—				
Discretional Contingencies		2,749 13 4		
Auditors' Allowance		10,000 0 0		
House Rent		2 9 9		
Local Allowance		73,199 14 7		
Cost of caskets and addresses presented to Lord Sydenham, the retiring Governor, and to Lord Willingdon, the Governor designate, and other expenses in connection therewith		1,577 8 0		
Contribution for the 1st year towards the expenses of King George V Anti-Tuberculosis League		10,000 0 0		
Contribution towards the Fund for the Children's Fête held in Bombay in commemoration of His Excellency the Viceroy's recovery		5,000 0 0		
Contribution towards the Building to be erected at Apollo Bunder to commemorate the visit of His Majesty the King Emperor of India		1,00,000 0 0		
Writing-off a portion of the amount of Rs. 1,771-1-3 misappropriated by the Head Clerk M. H. Thakur of C Ward		764 3 9		
Cost of the Casket to be presented to His Excellency the Viceroy on his visit to Bombay and other expenses in connection therewith		1,600 7 6		
Portion of the difference between the book value and the sale proceeds of certain Surplus and Obsolete Stores, &c., of the Drainage Department written-off ...		10,500 0 0		
Adjustment (final) of the advance of Rs. 9,10,052-7-4 outstanding under Plague expenditure suspense adjustment account		1,00,000 0 0		
Grain Compensation		797 14 8		
			8,16,192 7 2	
INTEREST ON LOANS		26,69,518 6 7		
Less—				
Shown under Fire Brigade (page 117)		22,390 0 0		
			* 26,47,128 6 7	
CHARGES ON ACCOUNT OF LOANS			† 12,344 7 4	
Debt—				
INSTALMENTS ON ACCOUNT OF SINKING FUND—				
5 per cent. Municipal Loans		1,94,204 13 11		
4 „ „ „ 3½ per cent. basis ...		2,99,556 10 8		
4 „ „ „ 3 „ „ ...		1,20,213 2 11		
3½ per cent. Municipal Loans		10,328 8 6		
			‡ 6,24,302 15 0	
INSTALMENT ON ACCOUNT OF MUNICIPAL BUILDINGS FIRE INSURANCE FUND			10,000 0 0	1,19,90,687 12 10
PAID OUT OF THE NET PREMIA FUND—				
Loan Works (*vide* Appendix No. 9)				43,87,474 15 7
Carried over Rs....				1,63,78,162 12 5

* Includes Rs. 12,05,276-6-8 chargeable to Water Works Account.

† Of this, Rs. 5,897-12-7 are chargeable to Water Works Account.

‡ Of this, Rs. 2,61,456-13-5 are chargeable to Water Works Account.

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS
ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward. Rs.				2,80,98,530 18 8
DEBT—				
20 Lakhs Loan for Street Improvements ... ... (1st Instalment of 6 Lakhs.)			6,00,000 0 0	
55 Lakhs Loan for Miscellaneous Works ... ... (2nd Instalment of 25 Lakhs)			25,00,000 0 0	
70 Lakhs Loan for Tansa Reduplication and other Auxiliary Works (1st Instalment of 29 Lakhs.)			29,00,000 0 0	
				60,00,000 0 0
ADVANCES—				
(*a*)—CASH ADVANCES TO MUNICIPAL OFFICERS... ...			1,50,756 3 6	
(*b*)—INTER-DEPARTMENTAL CHARGES—				
Workshops (Private and Departmental Works) ..		2,09,721 3 4		
Private Works (Engineer's, &c., Departments)... ...		90,997 0 5		
Departmental Works (do.)		3,21,210 3 8		
(*c*)—ADVANCES TO CONTRACTORS			6,21,929 5 5	
(*d*)—MISCELLANEOUS			79,953 0 3	
(*e*)—RESERVE STOCK—			13,09,119 14 2	
Stock	7,88,855 1 5			
Water Works Imprest	2,094 4 7			
Executive Engineer (General)	20,315 8 0			
		8,11,264 14 0		
Surplus and Obsolete Stores		18,142 3 7		
Stock Adjustment Account		4,921 10 5		
Line Suspense Account		5,992 13 10		
Purchases			8,40,321 9 10	
Sales			7,65,290 5 2	
			52,023 2 2	
Carried over ... Rs.				33,19,293 8 5
				3,79,17,824 6 1

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1914—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward Rs.				1,63,78,162 12 5
PAID OUT OF THE WORN-OUT WATER MAINS RENEWAL FUND—				
Laying water mains in A Ward			Cr. 1,027 15 8	
Laying 5" Main in Tank Street			897 11 7	
Laying water mains in B Ward			42,487 13 5	
Replacing small service mains in various parts of the city			280 14 2	
Laying 5" main in Vithoba lane			365 9 2	
Laying 5" main in Temkar Street			1,386 16 14	
Replacing 3" main in Kika Street by a 5" one			2,402 6 0	
Replacing 3" main by a 5" main in Guzar Street ...			966 15 5	
Laying 5" main in Undria Street			1,751 1 9	
DEBT—				19,604 9 8
REPAYMENT—				
Vehar Debt			23,738 11 0	
Drainage Loan of 1878			1,34,500 0 0	
				1,58,238 11 0
Investment of Sinking Fund and of Interest accrued thereon—				
Sinking Fund Instalments			6,24,802 15 0	
Interest Realizations			5,17,755 14 8	
				11,42,558 13 8
Plague Expenditure Suspense Adjustment Account				Cr. 1,00,000 0 0
ADVANCES—				
(a)—CASH ADVANCES TO MUNICIPAL OFFICERS... ...			1,43,944 7 4	
(b)—INTER-DEPARTMENTAL CHARGES—				
Workshops (Private and Departmental Works) ...		2,17,689 11 4		
Private Works (Engineer's and Health Departments)...		89,784 10 9		
Departmental Works (Engineer's Department) ...		3,23,114 7 0		
			6,30,588 13 1	
(c)—ADVANCES TO CONTRACTORS			75,333 2 9	
(d)—MISCELLANEOUS			2,61,954 9 8	
(e)—RESERVE STOCK—				
Stock	7,88,651 4 8			
Water Works Imprest	2,719 9 5			
Executive Engineer (General)	18,400 0 0			
		8,09,770 13 8		
Stock Adjustment Account		9,135 5 6		
Line Suspense Account		1,220 9 8		
Surplus and Obsolete Stores,...		34 15 6		
			8,20,161 12 4	
Purchases			6,79,720 9 2	
Sales			59,987 15 4	
				26,71,626 5 8
Carried over Rs. ...				2,02,70,191 4 5

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and brought forward Rs. ...				3,79,17,824 6 1
DEPOSITS—				
(a)—BANK OF BOMBAY ON ACCOUNT OF CONTRACTORS, &c., PAPER DEPOSIT			1,76,900 0 0	
(b)—SURPLUS FUNDS INVESTMENTS—				
Paper Deposit		2,75,184 1 0		
Cash Deposit		19,164 7 11		
Current Account Deposit		19,91,938 7 1		
Fixed Deposit		61,00,000 0 0	83,86,287 0 0	
(c)—LOAN FUNDS—				
Paper Deposit		30,39,009 6 0		
Cash Deposit		49,519 2 6		
Current Account Deposit		4,45,813 12 6		
Fixed Deposit		35,50,000 0 0	70,84,342 5 0	
(d)—RESERVE FUNDS—				
1—Municipal Buildings Fire Insurance Fund—				
Paper Deposit	1,000 0 0			
Cash Deposit	7,112 13 0	8,112 13 0		
2—Worn-out Water Mains Renewal Fund—				
Paper Deposit	1,14,053 2 0			
Cash Deposit	52,734 5 1	1,66,787 7 1		
3—Net Premia, &c., Fund—				
Paper Deposit	19,500 0 0			
Cash Deposit	23,094 6 0	42,594 6 0	2,17,494 10 1	
Bank of Bombay on account of Contractors' Securities held under objection			31,300 0 0	
Investment of Surplus moneys in Government Paper, Municipal Debentures, &c.			4,68,958 4 1	
Deposits—carried over Rs. ...			1,68,65,282 3 2	
Carried over Rs. ...				3,79,17,824 6 1

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1914—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and brought forward Rs.				2,02,76,191 4 5
DEPOSITS—				
(a)—Bank of Bombay on Account of Contractors, &c., Paper Deposit			4,91,300 0 0	
(b)—Surplus Funds Investments—				
Paper Deposit		27,01,493 10 8		
Cash Deposit		19,164 7 11		
Current Account Deposit		21,74,453 6 2		
Fixed Deposit		55,00,000 0 0		
			1,03,95,111 8 9	
(c)—Loan Funds—				
Paper Deposit		25,00,000 0 0		
Cash Deposit		49,519 2 6		
Current Account Deposit		4,47,348 2 11		
Fixed Deposit		58,00,000 0 0		
			87,96,867 5 5	
(d)—Reserve Funds—				
1—Municipal Buildings Fire Insurance Fund—				
Paper Deposit	17,037 13 0			
Cash Deposit	6,920 10 8			
		23,958 7 8		
2—Worn-out Water Mains Renewal Fund—				
Paper Deposit	52,650 15 0			
Cash Deposit	52,528 8 6			
		1,05,179 7 6		
3—*Net* premia, &c., Fund—				
Paper Deposit	23,039 6 0			
Cash Deposit	23,051 11 4			
		46,091 1 4		
			1,75,229 0 6	
Bank of Bombay on account of Contractors' Securities held under objection			31,200 0 0	
Investment of Surplus moneys in Government Paper, Municipal Debentures, &c.			4,68,958 4 1	
Bank of Bombay on account of Public monuments, &c.—				
Maintenance of the Ranade Memorial...		1,200 0 0		
			1,200 0 0	
Deposits—carried over Rs. ...			2,03,60,066 2 9	
Carried over Rs. ...				2,02,76,191 4 5

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and brought forward Rs. ...				3,79,17,324 6 1
DEPOSITS—*contd.* and brought forward Rs.			1,34,65,282 3 2	
Deposits from Contractors, &c.—				
In Cash— Rs. a. p.				
(a) From Contractors ... 5,35,717 4 11				
(b) ,, Private parties received through Departmental Officers, 65,231 13 9				
(c) Other Deposits 3,24,155 14 2				
	9,25,105 0 10			
In Government Paper kept in Office	1,51,500 0 0			
In Government Paper lodged at the Bank of Bombay	4,90,800 0 0			
On account of works performed for private parties.	44,714 5 3			
		16,11,619 6 1		
Government of Bombay on account of Income Tax...		27,419 9 4		
Profit on Sale of Stores	4,517 4 6			
Miscellaneous Receipts, Stores Department—Supervision Charges on Stores sold	485 9 6			
		5,000 14 0		
Court Attachments		2,571 15 5		
Interest realized on Government, &c., paper lodged by the Municipal Employés, Contractors, &c. ...		5,802 10 11		
(Government of Bombay) Land Conveyance Licenses, &c.—				
Through Chief Accountant on account of License Fees, Badges, &c.		28,541 0 0		
Securities of Municipal Employés and Contractors returned by the Bank of Bombay for payment (kept in office)	1,55,800 0 0			
Paper Deposits from Municipal Employés and Contractors pending submission to the Bank of Bombay (kept in office)	5,19,200 0 0			
Government of Bombay—Expenses for sending indigent persons to the Pasteur Institute at Kasauli or Coonoor	7 8 0			
Deposit for the maintenance of the Ranade Memorial	1,200 0 0			
		6,76,207 8 0		
			23,57,162 15 9	
Interest and Instalments on account of Sinking, &c., Funds—				
Interest and Instalments on account of Sinking Funds		*Dr.*1,26,39,883 5 9		
Interest and Instalments on account of Fire Insurance, &c., Funds		*Dr.* 8,94,843 0 7		
			*Dr.*1,35,34,726 6 4	
Cheques Payable			2,76,97,888 5 2	
				3,28,85,557 1 9
			Total Rs.	7,08,03,381 7 10

W. E. WAITE,

Chief Accountant.

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1914—*concld.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and brought forward Rs. ..				2,02,70,191 4 5
DEPOSITS—*contd.* and brought forward Rs. ...			2,03,59,066 2 9	
Deposits from Contractors, &c.—				
In Cash— Rs. a. p.				
(a) From Contractors 6,08,803 6 7				
(b) „ private parties received through Departmental Officers. 63,732 0 6				
(c) Other Deposits 1,79,737 11 2				
	8,52,273 2 8			
In Government Paper kept in Office	1,77,100 0 0			
Do. lodged with the Bank of Bombay...	1,70,700 0 0			
On account of works performed for private parties...	59,880 8 11			
		12,59,953 11 2		
Government of Bombay on account of Income Tax ...		27,417 3 7		
Profit on Sale of Stores	4,400 10 7			
Miscellaneous Receipts, Stores Department—Supervision Charges on Stores sold	624 14 4			
		5,025 8 11		
Court Attachments		2,528 11 5		
Interest realized on Government, &c., Paper lodged by the Municipal Employés, Contractors, &c.		5,987 13 6		
(Government of Bombay) Land Conveyance Licenses, &c.—				
Through Chief Accountant on account of License Fees, Badges, &c....		29,467 12 0		
Securities of Municipal Employés and Contractors returned by the Bank of Bombay for payment (kept in office)	1,55,800 0 0			
Paper Deposits from Municipal Employés and Contractors pending submission to the Bank of Bombay (kept in office)	5,38,800 0 0			
Government of Bombay Expenses for sending indigent persons to the Pasteur Institute at Kasauli or Coonoor...	7 8 0			
		6,94,609 8 0		
Discount, Printing, Stamp, &c. charges on loans to be transferred to Net Premia Fund			20,24,688 4 7	
			* 1,15,467 3 1	
Contribution from Government towards the cost of Primary School Buildings and their sites			40,879 6 8	
Cheques Payable			2,27,21,210 0 10	
				5,02,62,511 1 11
				7,05,32,702 6 4
Cash Balance (in Bank and Office Treasuries) on 31st March 1914				2,70,679 1 6
			Total ...Rs.	7,08,03,381 7 10

* This is made up as follows :—

	Rs. a. p.	Rs. a. p.
Discount on the 1st Instalment of Rs. 29 Lakhs of the 79 Lakhs Loan for the Redupplication of Tansa Main and other auxiliary works ...	35,802 3 9	
Discount on the 1st Instalment of Rs. 6 Lakhs of the 20 Lakhs Loan for Street Improvements	8,943 12 0	44,745 5 9
Printing charges...		9,721 14 1
Stamps, &c., charges		60,000 0 0
Compensation to Mr. Alikhan Fatehkhan for 100 temporary huts put up by him at Agripada Health Camp which were destroyed by fire (to be met out of Municipal Buildings Fire Insurance Fund)		1,000 0 0
Total Rs.		1,15,467 3 1

P. R. CADELL,
Municipal Commissioner.

Appendix

STATEMENT showing the Principal Liabilities on account of Street Improvements incurred at rates finally made

Name of the Party.	Locality.	Actual area acquired.	AS ORIGINALLY	
			Rate per square yard.	Compensation for Land.
		Sq. yds.	Rs. a. p.	Rs. a. p.
Messrs. Sharafally Mamuji, Lukmanji Shaikh Ismailji, Ibrahimji Shaikh Ismailji and Abdulhusein Shaikh Ismailji.	Junction of Gujar Street and Agiary Lane, Bhendy Bazaar.	45·21	50 0 0	2,260 8 0
Mr. Salemahomed Haji Ahmed Nurani ...	Junction of C. P. Tank Road and 2nd Pinjrapole Street.	83·36	40 0 0	1,334 6 5
Messrs. Lalji Dungersi, Singjee Sunderjee, Thakur Peraji Khetan, Liladhar Dholu and Liladhar Govindji, Trustees of the Hansraj Karamsee Runmal Charity Trust.	Junction of Musjid Bunder Road and Samuel Street.	53·32	400 0 0	21,328 0 0
Mr. Behramjee N. Seervai	Gunbow Street...	65	.....	14,600 0 0
Bai Sakinabai Sarafkhan	Kamatipura 15th Street	23·28	10 0 0	182 12 9
Mr. Vishwanath Madanji	Lady Jamshedji Road	52·54	5 0 0	262 11 2
„ Jivanlal Panalal	Junction of Grant Road and Gilder Street.	66·63	61 0 0	4,064 6 10
Nawab Syed Mahomed Murtazekhan ...	Junction of Bank Street and Green Street.	15·94	100 0 0	1,594 0 0
Sir Adamji Peerbhoy, Kt.	Parel Road, Bhendy Bazaar	5·41	120 0 0	649 3 2
The Executors of the late Mr. Bhagwandas Narotamdas.	Junction of C. P. Tank Road and 3rd Pinjrapole Street.	18·29	50 0 0	914 8 0
Mr. Mulla Ibrahimji Rajbhoy	Junction of Jairazbhoy Street and Sukhlajee Street.	254·88	10 0 0	2,548 12 9
Messrs. Rustomji Dorabji Dinshaw, Dinshaw Dorabji Dinshaw, Kaikhshru Ratanji Dorabji, and Meherjibhoy Ruttonji Dorabji.	Gowalia Tank Road	241·04	35 0 0	8,436 6 5
Messrs. Janardhan Juggonnath Manker, Anant Juggonnath Manker and Ram Juggonnath Manker.	Purbhadevi Road	392·08	2 0 0	784 2
Mr. Balkrishna Madhavrao Manker ...	Do.	412·48	2 0 0	824 16 4
„ Vasudev Ramchandra Manker... ...	Do.	83·83	2 0 0	167 10 7
„ Ramkrishna Ravji Javle...	Lady Jamsetji Road	55·70	5 0 0	278 8 0
Messrs. Mahomedali Adamji Peerbhoy, Abdulhusein Adamji Peerbhoy, Karimbhoy Adamji Peerbhoy, Ibrahim Adamji Peerbhoy, Alibhoy Adamji Peerbhoy, Peerbhoy Adamji Peerbhoy, Executors of Sir Adamji Peerbhoy.	Forjett Street and Gowalia Tank Road ...	479·11	20 0 0	9,582 3 2
Bai Valbai, widow of Nathu Velji	Mahim Bazaar Road	11·95	2 0 0	23 14 5
	Carried over ...	2395·05		65,287 1 7

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

No. 14.

originally sanctioned and at rates which were subsequently increased and on which payments were during 1913-14.

PROPOSED.		AS SUBSEQUENTLY SANCTIONED AND PAID.				REMARKS.
Compensation for Structure.	Total.	Rate per square yard.	Compensation for Land.	Compensation for Structure.	Total.	
Rs. a. p	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
2,568 0 0	4,828 8 0	60 0 0	2,712 9 7	2,568 0 0	5,280 9 7	
3,765 0 0	5,099 6 5	.....	5,810 0 0	.....	5,810 0 0	Settled for a lump sum.
.....	21,328 0 0	.....	31,000 0 0	.....	31,000 0 0	Settled for a lump sum including interest and costs.
.....	11,000 0 0	.....	16,100 0 0	.....	16,100 0 0	Settled for a lump sum.
.....	182 12 9	20 0 0	365 9 7	.....	365 9 7	
188 0 0	450 11 2	7 8 0	394 0 10	186 0 0	580 0 10	
.....	4,064 6 10	65 0 0	4,330 15 2	.....	4,330 15 2	
.....	1,594 0 0	115 0 0	1,833 1 7	.....	1,833 1 7	
.....	649 3 2	130 0 0	703 4 10	.....	703 4 10	
.....	914 8 0	55 0 0	1,005 15 2	.....	1,005 15 2	
.....	2,548 12 9	20 0 0	5,097 9 7	356 1 11*	5,453 11 6	* Interest at 6 per cent. from 4th April 1912 to 4th May 1913 and from 3rd July 1913 to 1st August 1913 (both days inclusive) on Rs. 50,094-5-6.
803 0 0	9,239 6 5	87 0 0	8,918 7 8	995 0 0	9,913 7 8	
2,214 0 0	2,998 2 7	5 0 0	1,960 6 5	780 0 0	2,740 6 5	
.....	824 15 4	5 0 0	2,062 6 5	670 0 0	2,732 6 5	
.....	167 10 7	5 0 0	419 2 5	273 0 0	692 2 5	
169 0 0	447 8 0	7 8 0	417 12 0	149 0 0	566 12 0	
576 10 8	10,158 13 10	.....	13,000 0 0	.....	13,000 0 0	Settled for a lump sum.
416 0 0	439 14 5	4 0 0	47 12 10	415 0 0	463 12 10	
10,699 10 8	76,936 12 3	.....	96,179 2 1	6,393 1 11	1,02,572 4 0	

Appendix

STATEMENT showing the Principal Liabilities on account of Street Improvements incurred at rates finally made

Name of the Party.	Locality.	Actual area acquired.	AS ORIGINALLY	
			Rate per square yard.	Compensation for Land.
		Sq. yds.	Rs. a. p.	Rs. a. p.
	Brought forward	2,305·05	.....	66,237 1 7
Mr. Surajmal Javerchand	Junction of Abdul Rehman Street and Nakhoda Street.	38·62	250 0 0	9,655 0 0
„ Dadabhoy Nowrojee Daver	Nepean Sea Road	15·89	10 0 0	158 14 5
„ Mathuradas Nensi	Cavel Street	123·84	35 0 0	4,334 6 5
Bai Jadavbai, wife of Pokhermal Amerchand.	Fanaswadi Street	86·35	30 0 0	2,590 8 0
Messrs. Nabeobhai Kikabhoy, Hakimuddin Abdulhusein, Sarafali Tyebji and Abdul Tyeb Mahomedally.	Junction of Falkland Road and Sindhi Lane.	55·68	40 0 0	2,227 3 2
Mr. Vinayek Sadanand Joshi	Lady Jamsetji Road	102·72	5 0 0	513 9 7
„ Karimbhoy Tajbhoy	Worli Road	67·69	38 0 0	236 14 8
„ Hareshwar Mahdev Pandit	Lady Jamsetji Road	42.14	5 0 0	210 11 2
„ Dhanjibhoy Framji Contractor... ...	Forjett Street	90·54	20 0 0	1,810 12 9
„ Rustumji Dhanjibhoy Sethna and Bai Manibai, widow of Lukhmidas Haridas.	Junction of Victoria Road and Mount Road.	2,608·93 2,245·55	10 0 0 10 0 0	26,089 4 9 22,455 8 0
		7,783·00	.....	1,86,519 14 6

				Rs.	a.	p.
Average rate per square yard for compensation for land as originally sanctioned				17·54 or 17	8	8
Do.	do.	do.	do. as subsequently do.	22·75 or 22	12	0
Do	do.	do.	for structure as originally do.	2·61 or 2	9	7
Do.	do.	do.	do. as subsequently do.	2·92 or 2	14	9
Do.	do.	do.	for total amount as originally do.	20·15 or 20	2	5
Do.	do.	do.	do. as subsequently do.	25·68 or 25	10	10, or 27·4 per cent.

W. E. WAITE,
Chief Accountant.

No. 14 —(*concld.*)

originally sanctioned and at rates which were subsequently increased and on which payments were during 1913-14.

PROPOSED.		AS SUBSEQUENTLY SANCTIONED AND PAID.				REMARKS.
Compensation for Structure.	Total.	Rate per square yard.	Compensation for Land.	Compensation for Structure.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
10,699 10 8	76,936 12 8	.....	96,179 2 1	6,393 1 11	1,02,572 4 0	
.....	9,655 0 0	300 0 0	11,586 0 0	.....	11,586 0 0	
295 0 0	453 14 5	17 0 0	270 2 1	327 0 0	597 2 1	
6,257 0 0	10,591 6 5	40 0 0	4,953 9 7	5,100 0 0	10,053 9 7	
657 0 0	3,247 8 0	38 0 0	3,926 12 5	.....	3,926 12 5	
1,516 0 0	3,743 3 2	55 0 0	3,062 6 5	1,516 0 0	4,578 6 5	
340 0 0	858 9 7	7 8 0	770 6 5	340 0 0	1,110 6 5	
.....	236 14 8	4 0 0	270 12 2	.....	270 12 2	
158 0 0	368 11 2	7 8 0	316 0 10	158 0 0	474 0 10	
384 3 1	2,191 15 10	22 0 0	1,991 14 1	384 0 0	2,375 14 1	
....	26,080 4 9 22,455 8 0	12 0 0 10 0 0	31,307 2 7 22,455 8 0	8,550 0 0	62,312 10 7	
20,306 13 9	1,56,826 12 8	.....	1,77,089 12 8	22,768 1 11	1,99,857 14 7	

P. R. CADELL,
Municipal Commissioner.

Appendix

Income of the Bombay Municipality from the year 1865

TAXATION PROPER.

Year.	Gross Valuation.	House Rate.	Police Rate.	Lighting Rate.	Wheel Tax and Tolls.	Licenses for trades, Land Conveyances, Music, etc.	Town Duties.	Liquor Licenses.	Tobacco Licenses.		Contribution from Insurance Companies or Fire Tax.
1865	Rs. 1,20,16,695	Rs. 10,57,379	Rs.	Rs.	Rs. 2,32,686	Rs. 2,023	Rs. 5,04,739	Rs. 1,45,873	Rs.	....	Rs. ....
1866	1,43,94,993	7,16,004	2,93,683	93,417	3,15,330	2,72,665	5,132	46,924	1,20,290	....	....
1867	1,63,09,535	9,84,068	4,11,040	1,32,849	2,28,178	2,05,536	.....	1,04,808	1,18,426	....	....
1868	1,47,49,075	9,20,587	3,75,067	2,46,071	2,68,514	2,06,820	....	1,20,566	1,26,762	....	....
1869	1,39,41,260	7,99,306	2,59,583	2,48,466	2,57,574	1,50,351	3,03,292	2,49,077	1,51,178	....	....
1870	1,36,20,885	7,23,783	2,37,643	2,46,994	2,80,581	28,147	5,94,985	1,23,693	1,29,630	....	....
1871	1,34,26,845	6,75,489	2,30,409	2,30,236	2,06,521	7,655	4,51,486	1,15,879	1,28,086	....	....
1872	1,29,33,510	7,09,953	2,41,774	2,41,348	2,04,097	5,962	4,67,638	59,914	1,47,654	....	....
1873	1,26,71,616	7,01,018	2,37,282	2,37,050	2,16,063	87	4,46,924	2,79,074	1,48,792	....	....
1874	1,19,65,260	6,94,814	2,29,102	2,27,525	2,48,217	3,908	4,85,649	1,24,807	1,47,779	....	16,519
1875	1,15,54,066	5,82,738	2,20,569	2,16,632	2,45,274	591	6,72,987	1,58,980	1,45,956	....	14,355
1876	1,12,78,710	5,73,458	2,17,684	2,13,094	2,38,487	2,113	5,36,147	1,41,725	1,48,356	....	13,922
1877	1,14,77,690	5,47,541	2,20,961	2,14,670	2,44,369	1,946	7,51,019	85,597	1,49,762	....	19,164
		Consolidated Rate.									
1878	1,16,37,118	....	9,35,034	....	2,14,560	....	5,95,006	2,66,365	1,57,219	....	22,573
1879	1,14,93,417	....	10,52,773	....	2,23,560	3,563	5,38,617	1,43,750	1,53,029	....	20,761
1880	1,17,89,523	....	8,99,634	....	2,31,925	846	6,67,784	1,43,750	1,51,122	....	23,911
1881	1,17,14,470	@8%	10,58,810	....	2,31,366	1,802	8,37,482	1,43,750	1,51,625	....	24,939
					For 15 months, i. e., from 1st January 1882 to 31st March 1883, the calendar year						
1882-83	1,25,80,263	....	12,34,975	....	4,12,027	....	8,17,199	1,43,750	2,06,014	....	32,000
1883-84	1,46,84,507	@8%	9,83,538	....	2,55,227	3,417	6,67,113	1,79,687	1,74,306	....	24,709
1884-85	1,58,32,744	Do.	11,80,307	....	3,09,552	4,305	7,75,431	1,43,750	1,72,622	....	25,517
1885-86	2,00,25,223	Do.	14,61,305	....	3,32,485	4,325	6,78,292	1,43,750	1,79,177	....	29,914
1886-87	2,16,27,230	@8½%	14,88,867	....	6,19,561	2,913	10,13,252	1,43,750	1,90,250	....	29,779
1887-88	2,27,92,346	@8%	14,07,013	....	3,36,993	4,060	9,95,750	1,43,750	2,24,168	(b) Fire tax	37,457
1888-89	2,39,51,042	Do.	14,66,024	....	3,14,571	45,421	7,24,895	1,43,750	1,91,292	@8%	34,706
1889-90	2,73,64 339	Do.	15,82,559	....	3,25,616	52,792	6,67,095	1,43,750	2,07,322	....	(c) 73,787
1890-91	2,82,37,355	Do.	15,64,932	....	3,56,648	60,451	9,79,520	1,43,750	1,96,284	@8%	1,25,245
1891-92	2,85,30,023	Do.	17,55,081	....	3,42 973	75,101	8,40,222	1,43,750	1,86,151	Do.	1,24,263
1892-93	2,64,08,982	Do.	17,73,501	....	3,44,905	79,378	9,73,028	1,43,750	1,86,703	Do.	1,59,838
1893-94	2,69,79,728	Do.	17,49,321	....	3,51,175	85,817	8,97,256	1,43,750	1,86,829	@8½%	1,10,604
1894-95	2,76,13,741	Do.	17,49,385	....	3,56,082	95,137	8,86,542	1,43,750	2,03,341	Do.	1,09,325
1895-96	2,82,56,881	Do.	17,67,000	...	3,65,525	96,335	9,30,851	1,43,750	2,17,475	Do.	1,10,437
1897-98	2,94,82,805	Do.	19,35,325	....	3,46,681	74,085	6,48,141	1,43,750	1,52,867	Do.	1,09,139
1898-99	2,98,53,636	@9%	21,06,995	....	3,46,838	88,665	9,51,424	1,43,750	1,39 823	Do.	1,20,961
1899-1900 ..	3,05,17,091	@12%	28,74,389	....	3,39,197	87,754	11,17,161	1,43,750	2,08,544	Do.	1,17,219
1900-1901 ..	3,13,75,106	Do.	28,94,971	....	3,02,748	90,346	15,94,121	1,43,750	2,21,338	Do.	1,26,327
1901-02	3,18,11,625	@10%	25,72,001	....	3,21,366	93,702	11,31,371	1,43,750	2,16,939	Do.	1,20,647
1902-03	3,18,91,409	Do.	25,81,510	....	3,40,747	92,733	8,64,122	1,43,750	2,38,065	Do.	1,27,370
1903-04	3,44,49,899	Do.	27,84,974	....	3 71,013	1,02,070	12,19,346	1,43,750	2,44 092	Do.	1,29,049
1904-05	3,54,15,934	Do.	30,26,572	....	3,98,070	1,04,511	11,68,973	1,43,750	2,40 064	Do.	1,38,163
1905-06	3,81,90,177	@8½%	27,55,778	....	4,19,587	1,03,772	14,16,945	1,43,750	2,66,764	Do.	1,51,302
1906-07	4,14,48,901	Do.	29,56,245	....	4,48,343	96,923	11,68,650	1,43,750	2,72,779	@10%	1,20,057
1907-08	4,42,79,240	@8%	29,74,517	....	4,42,749	1,03,221	12,34,074	1,43 750	2,85,828	Do.	1,28,831
1908-09	4,63,75,706	Do.	31,47,349	....	4,23,892	1,06,284	13,90,203	1,43,750	2,90,365	Do.	1,39,329
1909-10	4,94,44,967	@9½%	38,08,816	....	4,79,857	1,19,278	12,96,320	1,43,750	2,79,690	Do.	1,47,422
1910-11	5,20,51,478	@10½%	43,61,660	....	5,01,363	97,754	14,23,491	1,43,750	2,80,614	Do	1,63,287
1911-12	5,38,02,464	Do.	47,42,602	....	4,72,198	99,314	16,86,660	1,43,750	2,89,967	@12½%	2,15,094
1912-13	5,51,71,773	Do.	47,18,883	....	4,63,437	1,13,777	12,47,097	1,43,750	2,78,898	Do.	2,33,627
1913-14	5,79,47,463	@9½%	46,41,022	....	5,61,500	1,29,771	17,30,637	1,43,750	2,91,283	Do.	2,44,282

W. E. WAITE.
Chief Accountant.

No. 15.

to close of the financial year 1913-1914.

Total Taxation Proper.	Services Rendered. Halalkhore Tax.	Services Rendered. Water Tax.	Total services rendered.	Miscellaneous. Government contribution for Police and City Improvement Trust.	Miscellaneous. Returns from Property and Miscellaneous.	Total Income.	Year.	Population by Census.	Incidence of taxation per head of population.	Five years' average annual Income.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.			Rs. a. p.	
19,42,762	....	1,78,719	1,78,719	....	2,42,306	23,63,787	1865	8,16,562	2 9 6	
18,66,545	1,92,832	6,49,121	8,41,973	....	2,06,154	29,14,672	1866	....	3 5 1	
23,44,905	1,45,824	3,73,006	5,18,830	1,50,000	1,26,789	30,40,524	1867	....	3 5 1	32,12,976
22,76,927	3,91,454	4,98,377	8,89,831	2,60,129	4,25,787	38,52,674	1868	....	3 12 0	
24,18,778	2,80,562	3,62,998	6,43,560	1,09,882	2,71,011	33,93,226	1869	....	3 11 0	
23,44,659	2,13,197	3,66,986	5,80,183	1,09,882	2,73,025	33,07,749	1870	....	3 9 3	
20,44,042	1,99,986	3,57,578	5,57,564	....	2,69,654	28,71,160	1871	....	3 2 11	
20,78,240	2,17,071	4,07,835	6,24,906	....	3,45,185	30,48,331	1872	6,44,605	4 3 1	31,26,574
20,66,275	2,00,890	4,00,639	6,01,229	....	4,56,694	33,24,108	1873	....	4 4 2	
20,78,020	1,92,235	3,63,087	5,55,322	....	3,47,980	29,81,322	1874	....	4 1 4	
22,28,085	1,94,215	3,00,212	4,94,427	90,000	3,31,014	31,43,526	1875	....	4 3 7	
21,84,986	2,04,077	3,03,377	5,12,454	90,000	3,90,288	31,77,723	1876	....	4 2 11	
22,34,031	2,01,299	3,11,823	5,13,122	90,000	4,04,299	32,41,452	1877	....	4 4 2	31,00,805
21,79,968	1,95,380	2,92,780	4,88,160	90,000	3,87,025	31,45,153	1878	....	4 2 2	
21,45,062	2,42,015	3,54,798	5,96,813	90,000	5,09,299	33,41,174	1879	....	4 4 0	
21,18,977	2,03,047	3,00,709	5,03,756	75,000	4,64,173	32,61,870	1880	....	4 2 4	
22,59,094	2,81,805	5,21,819	8,06,624	50,000	7,57,976	38,73,694	1881	7,73,196	3 15 5	
being changed to the financial year, the income was as follows:—										33,37,843
28,46,965	3,28,916	6,70,677	9,99,593	91,125	6,75,575	46,13,240	1882-83	....	4 15 6	
22,87,996	2,43,557	5,47,647	7,91,204	85,672	5,72,400	37,37,272	1883-84	....	3 15 8	
25,83,967	2,80,615	5,96,138	8,85,739	90,000	6,64,162	42,13,868	1884-85	....	4 8 9	
28,30,449	3,16,797	6,65,370	9,82,157	90,000	5,71,367	44,73,973	1885-86	....	4 14 10	
31,38,299	3,18 630	7,74,651	10,93,281	....	6,30,214	49,01,814	1886-87	....	5 8 7	
31,10,581	3,72,258	8,83,724	12,55,983	....	7,99,967	51,66,530	1887-88	....	5 10 4	49,20,136
29,21,718	3,90,039	9,63,804	13,53,843	....	6,90,632	49,65,193	1888-89	....	5 8 5	
30,41,841	4,73,919	11,23,006	15,96,925	....	7,03,403	53,42,169	1889-90	....	5 15 11	
34,10,930	5,37,222	11,49,198	16,76,420	....	(a) 10,78,551	61,65,901	1890-91	....	6 9 3	
35,07,542	5,55,377	11,81,429	17,37,206	....	9,88,335	62,33,183	1891-92	8,21,764	6 6 1	
36,68,001	6,23,290	14,07,081	20,29,281	....	9,73,861	66,72,043	1892-93	....	6 14 11	64,74,813
35,24,952	5,82,026	13,86,828	18,68,854	....	(b) 13,69,189	67,62,696	1893-94	....	6 8 9	
35,47,569	6,81,557	13,88,265	20,69,822	....	9,21,981	65,39,372	1894-95	....	6 15 4	
36,11,373	6,57,812	14,42,895	21,00,707	....	(c) 10,49,730	67,61,710	1895-96	....	6 15 2	
31,47,494	6,88,486	13,98,410	20,86,896	....	9,74,988	62,08,978	1896-97	....	5 5 10	
37,76,284	7,35,485	13,29,852	20,65,337	....	(d) 13,03,939	71,45,560	1897-98	....	6 1 8	62,27,595
41,20,620	7,13,122	15,00,970	22,14,092	....	8,27,199	71,61,911	1898-99	....	6 11 4	
53,47,419	7,23,264	17,72,967	24,96,231	....	9,84,167	88,29,817	1899-1900	....	8 8 9	
49,24,736	7,14,449	17,35,635	24,50,075	....	10,28,027	84,02,848	1900-01	....	8 15 7	
43,71,989	7,38,439	15,47,120	23,35,559	....	10,59,131	77,66,729	1901-02	7,76,094	8 10 3	
47,90,830	7,95,984	15,13,976	23,09,960	....	10,74,698	81,76,488	1902-03	....	8 2 6	84,32,800
49,59,505	8 10,610	15 71,566	23,82,176	....	11,40,944	84,82,625	1903-04	....	9 7 4	
55,22,670	8,75,194	17,14,463	25,89,647	....	12,23,794	93,36,111	1904-05	....	10 7 3	
50,06,080	9,32,655	18,57,780	27,90,435	....	12,96,024	90,92,539	1905-06	....	10 0 9	
53,76,598	9,91,362	19,38,429	29,29,791	....	12,42,112	95,48,501	1906-07	2,93,822	8 2 10	
54,64,330	10,46,874	19,48,830	29,95,704	....	14,29,290	98,89,324	1907-08	....	8 10 5	1,00,26,055
56,12,966	11,19,322	20,04,189	31,23,511	....	15,49,671	1,02,86,048	1908-09	....	8 14 11	
64,16,245	11,92,343	20,11,788	32,04,134	....	15,93,455	1,12,13,864	1909-10	....	9 13 5	
72,38,583	12,32,951	19,95,327	32,28,278	....	17,29,288	1,21,96,149	1910-11	9,73,367	10 11 0	
72,29,227	12,92,697	20,79,120	33,71,817	....	20,54,645	1,26,55,789	1911-12	....	10 13 2	1,26,17,507
77,66,564	13,50 833	21,70,948	35,21,781	....	(e) { 14,63,244	1,27,41,589	1912-13	....	11 3 5	
77,42,246	13,85,128	23,85,434	36,70,562		{ 14,63,693	1,28,76,501	1913-14	....	11 10 5	

(a) Includes Rs. 2,32,944 for arrear recoveries for work done.

(b) Rs. 4,58,699 adjusted on account of premia on loans.

(c) Includes premia of Rs. 97,739 on loan raised.

(d) Includes rebate of plague expenses amounting to Rs. 4,57,053.

(e) Exclusive of the amount of interest realised on Sinking and Special Funds which was hitherto treated as income.

P. R. CADELL,
Municipal Commissioner

Appendix

Expenditure of the Bombay Municipality from the

Year.	General Superintendence.	Assessment and Collection.	Fire Brigade.	Public Works (Engineering) Department.	Public Health Department.	General Stores.	Pensions and Gratuities.	Police Charges.	Education.	Medical Relief.	Debt.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1865	94,334	1,26,472	Not	31,52,722	8,15,914	Not	345	1,41,931	....	....	....
1866	1,81,622	58,638	traccable.	13,32,917	14,40,293	traccable.	14,430	3,96,169	....	....	20,554
1867	61,837	71,531		17,38,826	14,26,321		2,580	4,25,423	....	....	73,360
1868	70,990	87,603	22,708	12,29,594	10,45,862	9,012	3,733	4,17,083	....	....	2,19,977
1869	1,09,879	1,25,691	23,318	12,51,429	8,57,425	8,312	5,634	3,25,637	....	....	3,81,368
1870	1,22,202	1,12,458	30,896	13,73,897	8,29,784	8,046	10,354	4,24,906	....	....	4,46,187
1871	1,22,653	1,12,851	31,261	13,11,727	7,84,485	6,482	7,758	5,90,879	7,948	....	4,75,704
1872	1,15,530	1,33,354	34,435	12,33,987	7,61,854	*	7,221	3,27,209	9,221	....	2,52,971
1873	1,16,575	1,41,208	20,548	10,70,919	7,96,260	*	6,996	3,40,892	10,000	....	5,06,270
1874	1,11,860	1,39,023	25,316	10,53,329	7,36,139	*	8,030	3,44,325	10,000	....	5,09,022
1875	1,13,902	1,36,708	20,063	9,90,091	7,42,958	*	8,691	3,52,920	10,000	36,000	7,15,561
1876	1,09,189	1,42,267	37,764	9,70,195	7,07,681	....	11,157	3,57,734	10,000	36,000	7,09,127
1877	1,10,164	1,43,672	24,193	8,96,548	7,49,550	....	8,301	3,54,535	10,000	36,000	6,27,792
1878	1,15,597	1,44,467	27,617	8,13,057	7,90,481	....	8,008	3,61,581	15,000	36,000	8,66,223
1879	1,21,997	1,34,372	23,980	8,33,687	8,04,295	....	12,084	3,64,304	17,000	36,000	6,01,902
1880	1,23,498	1,37,726	24,800	8,86,191	7,82,410	....	7,749	3,59,166	17,500	36,000	6,42,860
1881	1,23,951	1,52,107	29,242	9,16,699	7,98,021	....	9,658	3,57,752	17,500	20,436	7,42,209
							For 15 months from 1st January 1882 to 31st March 1883, the calendar				
1882-83	1,82,715	1,87,858	73,665	14,01,108	10,14,785	....	12,803	4,54,034	28,125	54,949	12,28,898
1883-84	2,01,021	1,48,317	55,389	10,55,238	9,16,316	....	40,333	2,62,506	22,500	27,332	8,12,982
1884-85	1,63,258	1,64,917	64,977	11,31,551	9,19,967	....	23,293	3,65,748	22,500	34,912	9,37,666
1885-86	1,66,827	1,84,717	43,854	12,34,529	9,25,507	....	18,318	3,59,223	23,700	31,349	8,87,527
1886-87	1,73,990	2,17,134	70,904	13,03,859	10,10,118	....	19,123	2,61,914	32,602	46,236	8,98,563
1887-88	1,76,945	2,12,138	69,670	13,64,393	10,75,735	....	30,521	2,61,248	1,24,715	40,743	23,27,692
1888-89	1,69,223	1,98,820	1,12,328	14,01,141	11,68,410	....	19,470	2,59,140	50,362	26,257	14,90,115
1889-90	1,77,132	1,92,643	93,907	13,62,241	11,90,577	....	29,139	2,58,285	60,356	28,246	14,85,711
1890-91	1,82,193	2,23,854	1,29,291	15,92,034	13,02,064	....	32,117	2,58,235	68,646	28,601	15,52,139
1891-92	1,91,023	2,41,902	88,671	15,92,073	12,92,529	....	33,290	2,58,285	80,722	50,284	16,37,409
1892-93	1,90,929	2,52,123	1,47,694	17,72,512	13,01,563	....	29,845	3,63,625	87,565	49,576	21,97,922
1893-94	2,29,517	2,42,413	1,06,315	15,41,703	13,39,614	....	37,800	3,30,272	88,015	52,476	21,27,457
1894-95	2,11,621	2,47,771	1,14,144	16,67,335	13,70,168	....	46,568	3,74,022	87,290	61,456	20,26,571
1895-96	1,99,317	2,40,980	1,15,391	17,31,317	12,75,234	....	48,452	5,01,096	88,481	56,260	21,19,651
1896-97	1,99,641	2,48,159	1,07,654	15,55,640	14,09,867	....	58,601	5,51,589	88,389	53,101	20,56,122
1897-98	2,14,792	2,50,483	1,18,538	16,10,357	15,86,638	....	70,096	5,00,000	1,02,634	54,333	22,60,371
1898-99	2,10,380	2,57,182	1,00,078	14,29,617	16,89,174	....	56,866	5,01,013	1,14,776	58,201	24,81,128
1899-1900	1,97,643	2,72,850	1,17,698	16,01,898	20,30,441	....	66,034	5,00,000	1,11,990	54,997	23,40,269
1900-01	2,38,044	3,26,719	1,18,639	17,01,178	21,68,479	....	75,929	5,02,453	1,11,940	58,977	25,18,211
1901-02	2,13,036	2,94,004	1,21,728	15,71,437	20,07,064	....	56,440	5,00,022	1,12,513	57,000	26,46,475
1902-03	2,16,767	2,92,239	1,10,182	15,90,956	20,05,929	....	68,852	5,07,804	1,10,474	56,290	27,11,361
1903-04	2,24,069	2,99,453	1,24,119	16,65,761	19,79,274	....	57,487	5,00,381	1,12,858	54,625	29,19,564
1904-05	2,29,315	3,18,017	1,34,282	18,81,039	18,46,462	15,904	74,334	5,01,076	1,59,763	57,000	28,33,563
1905-06	2,43,503	3,24,580	1,33,986	19,54,844	19,91,160	19,269	71,778	5,00,000	1,61,470	57,008	29,82,471
1906-07	3,06,306	3,29,331	1,28,015	19,39,665	21,46,791	27,369	75,303	5,01,862	1,65,815	56,718	31,72,715
1907-08	2,59,564	3,56,403	1,69,674	21,17,200	22,87,706	31,328	74,295	1,28,450	2,65,250	4,50,181	32,36,942
1908-09	2,71,046	3,73,684	1,71,607	23,93,213	24,34,002	29,456	65,623	....	2,70,685	4,54,431	33,10,267
1909-10	3,09,102	3,59,480	1,62,138	23,91,606	23,64,080	30,859	69,817	....	2,93,256	4,23,571	33,87,134
1910-11	2,99,088	3,85,546	1,75,990	24,28,923	21,63,537	31,063	84,294	....	4,17,124	4,56,416	36,07,930
1911-12	2,93,600	3,75,204	1,74,706	24,92,972	21,40,628	33,054	86,701	....	4,20,311	4,79,599	36,54,829
1912-13	3,14,525	4,40,906	2,20,026	25,59,312	23,15,541	34,069	96,913	....	4,15,471	4,90,250	38,48,898
1913-14	3,11,559	4,41,694	1,85,024	29,42,522	23,09,128	35,094	1,07,499	....	4,35,985	4,91,260	38,58,390

* Combined with Controller's Office.

W. E. WAITE,
Chief Accountant.

No. 15 (A).

year 1865 to the year 1913-1914.

Contribution to the Bombay Improvement Trust.	Public Gardens.	Stores, Plant and Live Stock.	Municipal Building Fund.	Road Improvement Fund.	Investments Fund.	Plague Expenses.	Miscellaneous.	Total.	Year.	Five years' average annual Expenditure.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.
....	....	5,10,250	....	....	....	....	1,17,345	49,59,233	1865	
....	....	82,059	....	....	....	....	1,25,249	36,01,922	1866	
....	....	2,70,545	....	....	....	....	1,46,823	42,16,346	1867	38,77,203
....	....	3,52,722	....	....	....	....	37,775	34,77,088	1868	
....	....	....	....	....	....	....	42,665	31,31,353	1869	
....	....	....	....	....	....	....	23,416	33,92,185	1870	
....	....	....	....	....	....	....	53,213	38,04,661	1871	
....	27,273	....	....	....	....	....	(a) 1,57,333	31,15,888	1872	32,69,595
....	11,837	....	....	....	....	....	22,354	30,44,577	1873	
....	14,473	..	....	....	....	....	46,645	29,90,653	1874	
....	18,282	....	....	....	.. .	....	(b) 1,19,851	32,65,027	1875	
....	21,633	....	....	....	....	....	47,698	31,60,438	1876	
....	20,221	....	....	....	....	....	55,559	30,36,535	1877	31,63,669
....	21,190	....	.....	....	....	....	71,103	32,70,224	1878	
....	17,709	....	....	....	....	....	51,791	31,11,122	1879	
....	20,756	....	.....	....	....	....	44,321	30,37,902	1880	
....	19,463	....	2,50,000	....	....	....	(c) 3,52,835	37,98,872	1881	
Year being changed to the financial year, the expenditure was :—										
....	28,969	....	50,000	10,000	.. .	....	38,740	47,59,682	1882-83	38,41,465
....	20,263	....	20,000	....	....	....	33,234	37,15,812	1883-84	
....	22,738	....	801	....	.. .	....	(d) 2,11,150	38,81,020	1884-85	
....	23,264	....	99,199	....	.. .	....	98,226	40,86,940	1885-86	
....	38,326	....	49,779	....	....	....	57,562	41,76,362	1886-87	
....	42,123	....	50,221	....	....	....	32,436	58,12,690	1887-88	48,59,951
....	48,934	....	55,577	....	....	....	(e) 1,12,556	52,01,208	1888-89	
....	65,152	....	74,419	....	3,000	....	58,553	50,42,405	1889-90	
....	87,805	....	28,907	....	3,173	....	1,85,807	56,84,861	1890-91	
....	77,228	....	27,905	....	3,274	....	2,07,780	57,92,078	1891-92	
....	96,964	....	....	....	3,336	....	52,566	45,45,512	1892-93	52,60,272
....	(f) 2,80,453	....	....	....	5,54,979	....	23,321	65,63,926	1893-94	
....	93,969	....	....	....	44,086	....	28485	53,72,486	1894-95	
....	64,023	....	....	....	1,46,180	....	15,519	67,92,516	1895-96	
....	60,312	....	....	....	1,42 601	4,37,055	35,503	70,05,743	1896-97	
....	71,447	....	....	....	36,478	5,00,000	1,20,712	74 96,969	1897-98	71,87,247
....	74,959	....	....	....	37,425	—5.00.000	(g) { 8,12,546 19,673 }	73,39,026	1898-99	
....	79,250	....	....	....	35,316	— 43.694	32,235	73,92,480	1899-1900	
4,74,605	69,870	....	....	....	58,400	— 922	1,86,444	85,84,058	1900 01	
4,81,000	57,685	....	....	....	59,259	....	38,695	82,96,498	1901-02	
5,00,000	58,874	....	....	....	58,136	....	75,124	84,53,396	1902-03	84,57,384
3,50,000	67,422	....	.. .	....	33,265	....	54,006	84,31,390	1903-04	
2,50,000	66,092	....	....	....	38,899	1,81,920	57,913	85,91,618	1904-05	
2,50,000	64,751	....	....	....	39,477	2,26,538	(h) 3,62,256	93,74,519	1905-06	
2,00,000	64,735	....	....	....	39,526	2,43,044	18,945	95,20,790	1906-07	
2,56,081	75,188	....	....	....	44,445	1,95,517	1,30,930	1,01,89,201	1907-08	1,02,22,281
4,50,000	92,905	....	....	....	47,843	2,23,328	37,952	1,06,20,126	1908-09	
7,80,000	98,964	....	....	....	1,21,917	2,00,915	(i) 3,83,173	1,17,97,050	1909-10	
8,35,000	91,210	....	....	....	49,473	1,87,234	1,31,399	1,12,31,572	1910-11	
9,65,000	76,091	....	....	....	57,633	1,65,903	1,25,274	(j) 1,14,84,562	1911-12	1,16,24,227
9,22,000	83,982	....	....	....	10,000	1,47,763	2,23,882	(k) 1,16,81,587	1912-13	
9,32,093	91,683	....	....	....	10,000	1,24,682	2,16,198	(l) 1,20,48,926	1913-14	

(a) Includes write-off of loss in stores of Rs. 1,15,992.
(b) Includes Rs. 50,000 for visit of H. R. H. the Prince of Wales.
(c) Includes special adjustment of Rs. 3,24,837 for re-arranging the different loan funds.
(d) Includes loss of Rs. 1,84,774 on the sale of the Panwel Brick Factory.
(e) Includes Rs. 62,048 for loss on sale of investments.
(f) Includes Rs. 1,94,585 for land acquired.
(g) Write-off on account of frontage lands in Agripada.
(h) Includes contribution of Rs. 3,00,000 towards celebrating the visit of T. R. H. the Prince and Princess of Wales.
(i) Includes charges for Grain Compensation and Local Allowance and the loss sustained in the sale of unservicable stores written-off.
(j) Excludes Rs. 5,00,000 transferred from revenue for writing off a portion of the Plague expenditure advanced from Loan Funds.
(k) Excludes Rs. 3,10,083 transferred from revenue for writing off a portion of the Plague expenditure advanced from Loan Funds as well as the amount of investments of interest realized on Sinking and Special Funds.
(l) Excludes Rs. 1,00,000 transferred from revenue for writing off the balance of the Plague expenditure advanced from Loan Funds as well as the amount of investment of interest realized on Sinking and Special Funds.

P. R. CADELL,
Municipal Commissioner.

Appendix No. 16.

CONTRASTED STATEMENT OF INCOME AND EXPENDITURE OF THE BOMBAY MUNICIPALITY FROM 1865 TO 1913-14.

YEAR.	Income.	Expenditure.	DIFFERENCE.	
			More.	Less.
	Rs.	Rs.	Rs.	Rs.
1865	23,63,787	49,59,333	.....	25,95,546
1866	29,14,672	36,01,922	.....	6,87,250
1867	30,40,524	42,16,346	.....	11,75,822
1868	38,52,674	34,77,058	3,75,616	.....
1869	33,93,226	31,31,358	2,61,868	.....
1870	33,07,749	33,92,185	.....	84,436
1871	28,71,160	38,04,661	.....	9,33,501
1872	30,48,331	31,15,888	.....	67,557
1873	33,24,108	30,44,577	2,79,531	.....
1874	29,81,322	29,90,663	.....	9,341
1875	31,43,526	32,65,027	.....	1,21,501
1876	31,77,723	31,60,438	17,285	.....
1877	32,41,452	30,36,535	2,04,917	.....
1878	31,45,153	32,70,224	.....	1,25,071
1879	33,41,174	31,11,122	2,30,052	.....
1880	32,51,870	30,57,992	1,93,878	.....
1881	38,73,694	37,98,872	74,822	.....
From 1st January 1882 to 31st March 1883 (15 months).	46,12,240	47,53,632	.....	1,41,392
1883-1884	37,37,272	37,15,812	21,460	.....
1884-1885	42,13,868	38,81,020	3,32,848	.....
1885-1886	44,73,973	40,66,940	4,07,033	.....
1886-1887	49,01,814	41,76,362	7,25,452	.....
1887-1888	51,66,530	58,12,690	.....	6,46,160
1888-1889	49,66,193	52,01,258	.....	2,35,065
1889-1890	53,42,169	50,42,405	2,99,764	.....
1890-1891	61,65,901	56,84,861	4,81,040	.....
1891-1892	62,33,183	57,82,073	4,51,110	.....
1892-1893	66,72,943	65,45,512	1,27,431	.....
1893-1894	67,62,695	69,63,928	.....	2,01,233
1894-1895	65,39,372	63,73,486	1,65,886	.....
1895-1896	67,61,710	67,02,516	59,194	.....
1896-1897	62,08,978	70,04,743	.....	7,95,765
1897-1898	71,45,560	74,96,969	.....	3,51,409
1898-1899	71,61,911	73,39,026	.....	1,77,115
1899-1900	88,29,817	73,92,480	14,37,337	.....
1900-1901	84,02,848	85,84,058	.....	1,81,210
1901-1902	77,66,729	82,26,458	.....	4,59,729
1902-1903	81,75,688	84,53,398	.....	2,77,710
1903-1904	84,82,625	84,31,390	51,235	.....
1904-1905	93,36,111	85,91,618	7,14,493	.....
1905-1906	90,92,539	93,74,242	.....	2,81,703
1906-1907	96,48,501	95,20,790	1,27,711	.....
1907-1908	98,89,324	1,01,89,201	.....	2,99,877
1908-1909	1,02,86,048	1,06,30,126	.....	3,44,078
1909-1910	1,12,13,864	1,13,97,050	.....	1,83,186
1910-1911	1,21,96,149	1,12,81,872	9,14,277	.....
1911-1912	1,26,55,789	* 1,14,84,562	11,71,227	.....
1912-1913	1,27,41,589	(a) 1,16,81,587	10,60,002	.....
1913-1914	1,28,76,501	(b) 1,20,48,926	8,27,575	.....

* This is exclusive of Rs. 5,00,000 utilized towards writing off a portion of the Plague Expenditure.
(a) Do. " 3,10,052-7-4 do. do. do.
(b) Do. " 1,00,000 do. the balance do.

W. E. WAITE,
Chief Accountant.

P. R. CADELL,
Municipal Commissioner.

REVENUE.

Report on the working of the Assessment and Collection Department for the year 1913-14 by B. D. Banaji, Esq., Assessor and Collector, forwarded with his No. 10941, dated 30th May 1914.

1. The total amount collected under all heads, exclusive of Tolls, Miscellaneous Receipts and Fees was Rs. 87,43,767-7-9 against the estimate of Rs. 85,30,696, a difference of Rs. 2,13,071-7-9, detailed as under:—

Taxes.	Estimate.	Actual collections including adjustments.	Increase.
	Rs.	Rs. a. p.	Rs. a. p.
General Tax...	48,52,710	49,16,692 12 8	63,982 12 8
Water Tax*	20,88,686	21,87,280 2 1	98,594 2 1
Halalkhor Tax	13,54,000	13,98,476 13 1	44,476 13 1
Wheel Tax	2,35,300	2,41,317 11 11	6,017 11 11
Total ...	85,30,696	87,43,767 7 9	2,13,071 7 9

* Exclusive of Meter Hire and receipts by the Hydraulic Engineer.

2. As compared with the total collections for 1912-13, *viz.* Rs. 86,99,671-3-3, the collections for 1913-14, *viz.* Rs. 87,43,767-7-9, are more by Rs. 44,096-4-6.

3. On the 31st March 1914 the outstandings for property taxes, charges for water by meter and wheel tax (private) were Rs. 49,971-11-10 against Rs. 53,517-4-5 on 31st March 1913, of which Rs. 30,395-15-11 have been collected or adjusted upto 28th May 1914, leaving at that date Rs. 19,575-11-11 for recovery for all previous years. Out of this sum Rs. 12,322-14-6 are in dispute on account of valuations, water-supply by meter, &c., whilst Rs. 67-9-1 are irrecoverable.

4. Properties in the Assessment Book on 31st March 1914 were 61,293 as under against 61,336 on 31st March 1913:—

Buildings	39,030
Salt pans	272
Lands (including tanks, wells, &c.)	21,991
Total ...	61,293

Of this number 51,905 were assessed for the General Tax, 2,061 were exempted under Section 143 (1) (A) (B) of the Municipal Act, 5,756 were not charged the General Tax, being small plots of waste lands, houses marked "Unfit for human habitation," the assessments of which were temporarily reduced to a nominal value of Rs. 6 for which no bills were issued. The number of Municipal properties which are not assessed under Section 143 (1) (b) of the Act is 1,571.

5. The number of buildings newly erected, demolished and enlarged in 1913-1914 was 933, 823 and 330 respectively.

6. The assessments of properties contrasted with those of 1912-1913 were :—

Year.	Original Assessment (Gross).	Amount after disposal of complaints.		Amount of subsequent reduction during the year by demolition and on complaints.	Gross Amount after deduction of subsequent reduction.	Subsequent enhancement (new buildings, enlargements and under-assessments) (Gross).	Total Gross Assessment.	Increase—Final difference over preceding year's gross Assessment.	Rateable Assessment.	Classification of Rateable Assessment.			
		No. of complaints against opening Assessment.	Gross Assessment.							Chargeable with General Tax.	Exempted from General Tax, Section 143 (1) (a) (b).	For which no General Tax bills issued.	Total Rateable Assessment.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs.
1912-13	5,44,96,945	3,799	5,44,32,763	6,90,599	5,37,42,166	14,29,607	5,51,71,773	15,69,309	4,96,64,843	4,74,00,118	22,53,279	11,446	4,96,64,843
1913-14	5,79,28,435	4,277	5,77,07,269	13,79,580	5,63,27,689	16,19,774	5,79,47,463	27,75,690	5,21,62,819	4,98,20,659	23,31,083	11,077	5,21,62,819

7. There were 3,738 complaints against assessments made from 1st April and 539 complaints against assessments made during the currency of the year, making a total of 4,277 complaints against 3,799 complaints in 1912-13 :—

8. The following tables give the increases and decreases in property taxes levied as compared with those of 1912-1913.

General Tax.

1912-13.				1913-14.				Decrease (Difference between Columns 4 and 8.)
10½ per cent.	Compounded sum payable by Government under section 144 (3).	Compounded sum payable by Port Trustees under section 149*(3).	Total of Columns 1, 2 and 3.	10 per cent.	Compounded sum payable by Government under section 144 (3).	Compounded sum payable by Port Trustees under section 145 (3).	Total of Columns 5, 6 and 7.	
1	2	3	4	5	6	7	8	9
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
45,56,102 7 7	2,32,835 0 0	2,47,312 0 0	50,36,249 7 7	48,30,169 13 7	2,19,139 1 7	2,32,764 0 0	49,82,072 15 2	54,176 8 5

The amount of General Tax on properties exempted from its payment under Section 143 (1) (*a*) (*b*) is Rs. 2,33,108-3-8 against Rs. 2,39,410-14-8 in 1912-1913.

Water Tax.

1912-13.				1913-14.				Difference.			
On rateable value @ 8¾ per cent.	Compounded.	On meter measurement.	Total of columns 1, 2 & 3.	On rateable value @ 8¾ per cent.	Compounded.	On meter measurement.	Total of columns 5, 6 & 7.	On rateable value (Increase).	Compounded (Decrease).	On meter measurement (Increase).	Difference between columns 4 & 8 (Increase).
1	2	3	4	5	6	7	8	9	10	11	12
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
10,47,693 3 6	12,456 15 8	10,58,880 1 5	21,18,880 9 1	10,69,102 8 8	12,066 8 11	10,76,839 12 8	21,78,008 13 10	41,108 15 0	196 6 3	17,959 11 3	59,178 4 9

Halalkhor Tax.

1912-13.			1913-14.			Difference between columns 3 and 6 (Increase).
On rateable value at 3 per cent.	On special service.	Total of columns 1 & 2.	On rateable value at 3 per cent.	On special service.	Total of columns 4 & 5.	
1	2	3	4	5	6	7
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
11,54,193 9 4	2,00,599 2 0	13,54,792 11 4	11,98,008 0 5	2,07,166 7 4	14,00,174 7 9	45,381 12 5

9. The total demand on account of property taxes amounted to Rs. 85,60,256-4-9 (including Government and Port Trust) to which is to be added Rs. 5,692-11-8 on account of previous years making a total of Rs. 85,65,949-0-5, from which sum Rs. 59,155-11-6 were allowed as one-fifth drawback of the General Tax under Section 158 (2) of the Municipal Act. The total number of claims for one-fifth drawback was 7,549.

10. For these taxes 129 bills for Rs. 5,692-11-8 were issued for previous years and for 1913-1914, 70,951 bills for Rs. 80,49,197-7-8 (excluding Government and Port Trust, for which no bills are issued, the amounts being paid direct into the Chief Accountant's Office), making a total of 71,080 bills for Rs. 80,54,890-3-4.

11. The outstanding balance for property taxes for all years on 31st March 1913 was Rs. 51,581-10-3. During 1913-1914 bills for these taxes, amounting to Rs. 80,54,890-3-4, were issued. Government and Port Trust contributions were Rs. 4,51,903-1-7 (Rs. 2,19,139-1-7 and Rs. 2,32,764-0-0). Thus the total demand amounted to Rs 85,58,374-15-2.

12. Of this amount Rs. 85,02,449-11-10 were collected, *i.e.*, Rs. 44,928-7-6 for former years and Rs. 84,57,521-4-4 for 1913-1914, leaving uncollected the sum of Rs. 55,925-3-4 Deducting from this amount Rs. 7,376-0-3 on account of bills recalled and cancelled, the balance outstanding on 31st March 1914 was Rs. 48,549-3-1.

13. The outstandings on 31st March 1914 were Rs. 4,969-14-2 on account of former years and Rs. 43,579-4-11 for 1913-1914, making a total of Rs. 48,549-3-1.

14. *Tax on Vehicles and Animals.*—The demand on account of the tax on private vehicles and animals for the four quarters ended 31st December 1913 was Rs. 2,41,332-8-0 against Rs. 2,34,858-15-0 for 1912. To the first sum are to be added Rs. 1,935-10-2 outstanding on 31st March 1913 and amended demand aggregating Rs. 198-0-0 for former years, making a total of Rs. 2,43,466-2-2 for recovery. 13,234 bills were issued during 1913-1914. The amount collected was Rs. 2,41,317-11-11, leaving Rs. 2,148-6-3 uncollected, of which Rs. 273-13-6 were written off under Standing Committee's Resolutions Nos. 545, dated 23rd April 1913, 2776, dated 6th August 1913, and 6971, dated 13th February 1914, and Rs. 452 were on bills recalled, amended bills being issued, making a total of Rs. 725-13-6, which deducted from Rs. 2,148-6-3 leaves Rs 1,422-8-9 outstanding at the end of the year.

15. During the year there were taxed 3,832 four-wheeled vehicles, 939 two-wheeled vehicles, 905 vehicles not drawn by horses, etc., 989 motor cars, 175 motor cycles, 6,505 horses (including those in commission stables), 121 ponies, 1,083 bullocks, 2 mules, 2 donkeys and 3 buffaloes.

16. The following table shows the total demands, collections and balances on account of property taxes and tax on private vehicles and animals :—

Year.	Opening Outstanding Balance.	Demand assessed for the year and for former years.	Total	Bills written off under Standing Committee's resolutions and Bills recalled for Amendment.	Collections.	Outstanding Balance on 31st March 1914.
1	2	3	4	5	6	7
1913-14.	Rs. a. p. 58,517 4 6	Rs. a. p. 87,45,926 12 11	Rs. a. p. 88,01,311 1 4	Rs. a. p. 8,101 13 9	Rs. a. p. 87,43,767 7 9	Rs. a. p. 49,971 11 10

17. The miscellaneous receipts for Notices, Warrants, Battaki Fees and other small items amounted to Rs. 5,528-0-8 against Rs. 5,635-15-0 in 1912-1913. The receipts for Meter Hire were Rs. 32,248-4-5 against Rs. 30,828-9-9 in 1912-1913.

18. Certificates of refund of taxes for 1913-1914 and for former years were issued as under :—

	Rs.	a.	p.
General Tax	31,026	12	10
Water Tax	5,425	13	1
Halalkhor Tax	13,262	7	10
Wheel Tax	142	0	0
Meter Hire	17	15	9
Total ...	49,875	1	6

19. There were 5 appeals to the Chief Judge of the Small Causes Court, of which 2 were settled out of Court and withdrawn by the appellants, 2 were dismissed with costs and one was pending.

20. The right of collecting the Toll at the Mahim and Sion Causeways was sold in 1913-1914 for Rs. 22,500 (from 1st August 1913 to 31st July 1914) against Rs. 22,000 in 1912-1913. The total income in 1913-1914 under this head was Rs. 22,333-5-4 against Rs. 21,783-5-4 in 1912-1913.

B. D. BANAJI,
Assessor and Collector.

No. 2881 of 1914-1915.

Bombay Municipality, 13*th July* 1914.

From

R. N. COYAJEE, Esq.,
Revenue and Refund Audit Officer:

To

P. R. CADELL, Esq., C. I.E., I.C.S.,
Municipal Commissioner for the City of Bombay.

Sir,

I have the honour to submit the Annual Administration Report of the Revenue and Refund Audit Department for the Official year 1913-14.

I.—REVENUE AUDIT.

1.—Assessor and Collector's Department.

(a) Ward Offices.

2. The balances and books of 81 Ward Clerks in the seven Wards of the City were duly examined at the end of each quarter. The amount of Audit Work done on each of these occasions is shown in detail in Appendix **A.**

3. 22,219 outstanding bills for Rs. 22,84,328-2-10 were duly checked in detail with the Ward Office Bill Books, Form 16 (every entry in which was subjected to scrutiny) and in totals, which last were tested with the book kept under para. 9 at page 155 of the Manual, which book is practically the Ward Clerk's ledger. They were also checked with the Head Office Accounts (Forms 8 and 9) both in details and in totals.

(b). Head Office.

4. The Assessment Book in both its parts, one for the General Tax and the other for the Water and Halalkhore taxes, was duly examined, and the exemptions from the payment of the general tax, the water tax and the halalkhore tax were duly checked with a view to ascertain that no property liable to pay any or all of these taxes had escaped assessment.

5. The Vehicle and Animal Tax book, kept under Section 186 of the Act, was also examined and all the entries therein checked with the Quarterly Returns of the Ward Superintendents and, where necessary, also with the owner's returns under Section 187, and with the charges made for the preceding quarters. Appendix **B** gives the details for each Ward.

6. As the year recognized by Bombay Act VI of 1863 is the calendar year, the revenue from the tax on Public Land Conveyances licensed by the Commissioner of Police under that Act was audited for the twelve months from 1st January to 31st December 1913, except that the revenue from the tax on motor-cars (Taxi cabs) plying for hire was audited for the twelve months from 1st April 1913 to 31st March 1914 as the permits in respect of them were issued by the Commissioner of Police for the official year under the motor vehicles rules. The certificates of issue of licenses supplied by the Commissioner of Police have been duly checked with the register kept by the Chief Accountant. The following table shows the work done:—

Description of Public Land Conveyances.	Number of certificates or vouchers.	Amount of Revenue, including Fees for Licenses, Badges, &c.		
		Rs.	a.	p.
Victorias	3,901	1,16,576	5	0
Riding Hackeries	99	1,389	12	0
Labour Carts	8,205	1,64,080	6	8
Hand Carts	12	106	0	0
Single Bullock Carts	1	9	0	0
Motor-cars (Taxi Cabs)	130	7,025	0	0
Total ...	12,348	2,89,186	7	8

7. The right of collecting the toll, leviable under Section 190 of the Act, on vehicles entering the city from Salsette, is farmed every year for twelve months on the 1st of August, and in pursuance of the conditions of the sale of such right, the toll farmer concerned during

the year of report supplied a monthly statement of the number of vehicles on which the toll was levied. The statement was checked with the counterfoils of ticket books and with the toll register, kept by the toll farmer in the prescribed form at the respective chowkies on the Sion and Mahim Causeways upto June 1913, after which date the Commissioner, on a representation from the toll farmer, was pleased to issue orders for dispensing with the toll register and consequently from August 1913, the statement was checked with the counterfoils of ticket books only. Owing to the change in the Contractor, it was not possible to arrange for the audit of the accounts for the month of July, during which Rs. 354-4-0 was the toll levied on 2,834 carts at Sion and Rs. 425-12-0 on 3,406 carts at Mahim. The work done is shown in the following table:—

Month.	At Sion.		At Mahim.		Total.	
	No. of Carts.	Amount.	No. of Carts.	Amount.	No. of Carts.	Amount.
		Rs. a. p.		Rs. a. p.		Rs. a. p.
March 1913	6,936	867 0 0	9,148	1,143 8 0	16,084	2,010 8 0
April „	7,342	905 4 0	9,120	1,140 0 0	16,363	2,045 4 0
May „	9,288	1,161 0 0	10,482	1,310 4 0	19,770	2,471 4 0
June „	5,484	685 8 0	6,532	816 8 0	12,016	1,502 0 0
August „	10,566	1,320 12 0	5,688	711 0 0	16,254	2,031 12 0
September „	14,706	1,838 4 0	6,630	828 12 0	21,336	2,667 0 0
October „	11,886	1,485 12 0	7,392	924 0 0	19,278	2,409 12 0
November „	5,710	713 12 0	8,520	1,065 0 0	14,230	1,778 12 0
December „	5,736	717 0 0	9,672	1,209 0 0	15,408	1,926 0 0
January 1914	7,342	917 12 0	10,188	1,273 8 0	17,530	2,191 4 0
February „	7,077	884 10 0	9,930	1,241 4 0	17,007	2,125 14 0
Total ...	91,973	11,496 10 0	93,302	11,662 12 0	185,275	23,159 0 0

8. From the 1st October 1913, a Municipal check over the toll farmer's receipts has been introduced by utilizing the spare labour of the Municipal Town Duty Export Inspectors at the Mahim and Sion Causeways, supplemented by an additional Inspector and Peon at each place for night work. As day and night supervision was thus secured, opportunity was taken of this arrangement to check at the same time the imports at those places of goods liable to town duty. This arrangement has been yielding satisfactory results, showing increases both in tolls and town duties as compared with the preceding year. Actual figures are not given here, as it is necessary to ascertain the results of a complete year's experiment before declaring results.

9. Appendix **C** shows the number of claims to one-fifth drawback under Section 158 (2) of the Act, which were scrutinized by this office during 1913-1914.

10. All the alterations in the rateable value and in demand made through the increase and decrease forms were duly checked with the Tabulated Ward Reports (Form 13), which contained your orders as to such alterations, and with your separate sanctions recorded in the Audit Note Book kept in this office.

11. The number of complaints against valuations under Section 168 of the Act heard by me was 364, B Ward, Mandvi; 387, E Ward, Byculla; 63, F Ward, Parel; and 119, G Ward, Mahim; total 933. The total number of decisions on complaints against amendments under Section 167 of the Act, which were scrutinized by this office, amounted to 255 from all the seven Wards of the City.

12. Twenty-four irrecoverable bills for Rs. 301-5-6, as per details given in the subjoined table, were scrutinized and submitted to you in the prescribed form for action under Section 216 of the Act.

Ward.	Number of Bills.	Amount.		
		Wheel tax.	Process fee.	Total.
		Rs. a. p.	Rs. a. p.	Rs. a. p.
A	13	124 10 7	1 0 0	125 10 7
C	1	11 0 0	.....	11 0 0
E	4	56 2 11	.....	56 2 11
F	6	108 0 0	0 8 0	108 8 0
Total ...	24	299 13 6	1 8 0	301 5 6

The Standing Committee sanctioned these being written off in their Resolutions Nos. 545, 2776 and 6971, dated 23rd April 1913, 6th August 1913 and 13th February 1914, respectively.

13. The demands, collections and balances at the close of the year, as duly audited in the manner contemplated by the Manual, are summarized below :—

	General tax.	Water tax.	Halalkhore tax.	Vehicle and Animal tax.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
I.—Total demands including Rs. 4,51,903-1-7 paid by Government and Port Trust in lieu of the General tax...	53,08,595 11 9	22,89,442 11 2	14,69,052 2 1	2,46,273 9 2	93,13,364 2 2
II.—Deduct bills recalled which were either cancelled or in lieu of which amended bills were issued.	3,70,342 0 0	82,563 11 2	63,185 14 11	3,233 7 0	5,19,325 1 1
III.—Net demand for collection ...	49,38,253 11 9	22,06,879 0 0	14,05,866 3 2	2,43,040 2 2	87,94,039 1 1
IV.—(a) Collection paid into the Treasury, including departmental adjustments ...	49,16,692 12 3	21,87,280 2 1	13,98,476 13 1	2,41,317 11 11	87,43,767 7 9
(b) Irrecoverable bills written off	.....	.....	.....	299 13 6	299 13 6
(c) Balance at the close of the year ...	21,560 15 1	19,598 13 11	7,389 6 1	1,422 8 9	49,971 11 10
Total of IV ...	49,38,253 11 9	22,06,879 0 0	14,05,866 3 2	2,43,040 2 2	87,94,039 1 1

14. The collections were checked with the totals in the Chief Accountant's books under each head and the balance by an examination of the bills actually on hand in the seven Ward offices on 1st April 1914. They were found to be correct.

Executive Engineer's Department.

15. The revenue books kept in the General, Streets and Buildings, and Drainage Branches of the Executive Engineer's office were duly checked each month with the permits, receipts, vouchers and other papers supporting the several entries therein, the object of audit being to see that the charges were correctly calculated at rates duly sanctioned and that the collections as shown by the various books were all paid into the Municipal Treasury. The number of vouchers examined was 5,705 representing Rs. 3,04,081-15-0.

Hydraulic Engineer's Department.

16. This Department was formerly in the charge of the Executive Engineer, but since the year 1910 it has formed the charge of a separate officer. The revenue books kept by the Hydraulic Engineer's Department were duly checked each month with the vouchers and other papers supporting the several entries therein, the object of audit being to see that the charges were correctly calculated at rates duly sanctioned and that the collections as shown by the various books were all paid into the Municipal Treasury. The number of vouchers examined was 2,384 representing Rs. 1,26,550-0-2.

Health Department.

17. The revenue books kept in the Health Office, as well as those kept in the seven Deputy Health Officers' Offices for the Wards A to G, were duly checked each month with the receipts, vouchers and other papers supporting the entries therein, the object of audit being

to ascertain that the amounts collected as shown by the various books were at the rates fixed under proper authority, and that they were all duly paid into the Municipal Treasury. The number of vouchers examined was 21,888 representing Rs. 1,23,443-5-1.

Vaccination Department.

18. The revenue books kept in the office of the Superintendent of Vaccination were duly checked each month in accordance with the instructions conveyed in your No. 15378 of 26th August 1910, with the receipts and vouchers and other available papers supporting the several entries therein, the object of audit being to see that the charges were correctly calculated at rates duly sanctioned, and that the collections as shown by the various books were all paid into the Municipal Treasury. The number of vouchers examined was 1,204 representing Rs. 6,455-6-0.

Licensing Department.

19. The number of Licenses for 1913-14, the issue of which was sanctioned by the Commissioner under Sections 394 and 393 of the Act, for the several purposes mentioned in Schedule M was 8,877 and brought in a revenue of Rs. 1,09,961-2-0. Each of these cases passed through this office and was duly scrutinized. The Register of the Superintendent of Licenses and the counterfoils of the License Books were also checked with the Audit Note Books kept in this office in accordance with the Commissioner's No. 3176 of 20th May 1890, and with the counterfoils of the receipts signed by the Chief Accountant's cashier for the purpose of seeing that the full amount of fee leviable in each case was collected and duly paid into the Municipal Treasury.

20. The number of permits issued under Section 390 of the Act in respect of newly-established factories and the number of renewals of such permits in the year under report were 82 and 347 respectively and brought in a revenue of Rs. 2,050 and Rs. 347 respectively. Each of these permits and renewals passed through this office and was duly checked with the Register kept by the Superintendent of Licenses, with the Audit Note Book kept in this office and with the counterfoils of receipts signed by the Chief Accountant's cashier.

Markets and Slaughter Houses.

21. The register and account books kept for the different Markets and Bandra Slaughter Houses were duly checked with the counterfoils of receipts issued to stall-holders, &c., and the other vouchers available. The total number of vouchers examined was 7,901 representing Rs. 5,85,493-10-6, which amount appeared duly paid into the Municipal Treasury.

Victoria Gardens.

22. The revenue books kept in the office of the Superintendent of Gardens were duly checked with the counterfoils of receipts issued for the sale of garden produce as well as with the counterfoils of tickets issued for the Elephant and Camel rides in the Victoria Gardens and for admission to the Gardens on Band days, such tickets having been brought into use from 12th October 1910. The number of vouchers examined was 50,481 representing Rs. 10,133-3-4, which amount appeared duly paid into the Municipal Treasury.

Rent bills against the Telephone and Tramway Companies.

23. The audit in connection with these bills, which used formerly to be done by the Chief Accountant, has been done in this office since the year 1906-1907.

24. The bill against the Bombay Telephone Company that was checked by this office in the year of report was for the Calendar year 1911, and the two half-yearly bills against the Tramway Company that were checked were for the period from the 2nd of February 1913 to the 1st of August 1913 and from 2nd of August 1913 to the 1st of February 1914, such being the periods for which these bills are issued every year.

General.

25. As the monthly and quarterly audit of the several Departments proceeded, the errors, irregularities or omissions, which were discovered in the course of it, were brought to the notice of the Heads of Departments concerned by means of official communications addressed to them through the Commissioner.

II.—REFUND AUDIT.

I.—Assessment Department.

26. The subjoined table shows the number and amount of claims to refund on account of vacancies under Sections 174 to 179 of the Act and on account of over collections which were scrutinized and sanctioned by this office in the year under report :—

Ward.	No. of Cases.	Amount of Refund sanctioned.
		Rs. a. p.
A—Fort and Colaba	409	11,457 14 3
B—Mandvi	163	4,160 0 5
C—Bhuleshwar	307	6,182 5 0
D—Girgaum	301	9,618 1 4
E—Byculla	183	4,097 11 1
F—Parel	104	2,056 1 2
G—Mahim	89	1,619 2 2
Properties owned by the City Improvement Trust	400	10,656 14 1
Total ...	1,956	49,848 1 6

27. The sum of Rs. 49,848-1-6 shown in the above table was sanctioned under the following Heads of Revenue :—

Heads of Revenue.	Amount.
	Rs. a. p.
General Tax	31,026 12 10
Water Tax	5,398 13 1
Halalkhore Tax	13,262 7 10
Vehicle and Animal Tax	142 0 0
Meter Hire	17 15 9
Total ...	49,848 1 6

Town Duty Refunds.

28. As the Port Trustees and the two Railway Companies send in no Administration Reports of the Town Dues collected by them on behalf of the Municipality, it is usual for this office to submit the two statements, Appendices D and E, compiled, in so far as the gross collections are concerned, from figures supplied by the Chief Accountant. The following table compares the total results for the year under report with those for the previous year :—

Year.	Gross Revenue.	Total Refunds.	Net Revenue.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
1912-1913	38,47,929 1 4	21,16,035 11 0	17,31,893 6 4
1913-1914	40,03,254 0 6	22,86,360 4 0	17,16,893 12 6

29. The rates of duty were the same as in the previous year.

30. It is a matter for congratulation that the net revenue has belied the anticipation that had been formed on the basis of its very depressed condition as presented during the first quarter of the year, the anticipation, namely, that the final results for the whole year would be poorer by about 3 lakhs than that of the preceding year. So far from this being realized, the revenue began to pull up fast as the year advanced, until at the end of the year it rose to almost the level of the previous year. And while this is so in regard to the net revenue from all the articles together, there is likewise not much of contrast, as between these two years alone, in the revenue from each individual commodity either. But when this biennial period is compared with the one which preceded it, the net revenue is seen to have taken the large stride forward of Rs. 2,51,705 per annum, as the following figures will show:—

Year.	Net Revenue.	Average per annum.
	Rs.	Rs.
1910-11	15,92,169	14,72,688
1911-12	13,53,208	
1912-13	17,31,893	17,24,393
1913-14	17,16,893	
Difference—Increase per annum ...		Rs. 2,51,705

31. Here is a marked repetition of previous experiences, for, just as in the year 1904-05 the engagement of a special staff for supervising the exports by rail and the certificates issued in respect of them by the Railway officials was at once followed by an increase in revenue amounting to over Rs. 2 lakhs per annum, a gain that has since established itself as a permanent one, so also the engagement from the year 1912-13 of another special staff for similar supervision over the exports from the Docks and Bunders, certified by the Port Trust, has concurrently called forth the above further increase of Rs. 2½ lakhs.

32. That this advance, too, like its predecessor, has very little to do with the normal expansion of the population and its wants, and is mainly attributable to the check above-mentioned, is clearly evidenced by the fact that while the population and its wants grow very imperceptibly and almost by uniform progression, the advances in question are much larger in extent and are eruptive in character, occurring at certain epochs only, *coincident*—this is noteworthy—with the inauguration of the checks referred to, and *continuing thenceforward*, thus clearly pointing to these checks as almost their sole cause.

33. On looking over Apendix 3A to the Chief Accountant's Annual Report, embodied every year in the Administration Report, it will be seen that it is sugar which makes the largest and most conspicuous contribution towards the above increases. This confirms the suspicion this office has always been entertaining that frauds are mostly committed in connection with this commodity, as being one the volume of trade in which is large, and which carries a high rate of town duty, so that every imposition of healthful checks upon the refunds on this commodity is bound to reflect itself in improved revenue.

34. There has been going on during the last four years a large expansion in the trade, both import and export, in some of the articles liable to town duty, chiefly sugar. To avoid misapprehension it may at once be stated that this does not imply, and has no reference to, increase in local consumption but merely in the transit trade. One of the effects of this expansion has been the large increase, referred to in my last Annual Report, in the number of claims for refund. The position is now as follows :—

	Rs.
1904-05	40,656
1905-06	47,823
1906-07	44,179
1907-08	46,308
1908-09	45,783
1909-10	48,254
1910-11	55,161
1911-12	50,906
1912-13	60,359
1913-14 (year of report)	71,127
1914-15 (from 1st April to 30th June)	18,851
Probable number for the whole of the year, 1914-15 ...	75,000

And there is no sign of any recession from this position in future, but rather every likelihood of still further advance. So severe was the strain put upon the department in the year under report that many members of the department had to sacrifice almost every Sunday and every holiday.

Conclusion.

35. In addition to the above, the office had to deal with correspondence of all departments affecting revenue, which passed through this office, and with questions of principle relating to revenue, the importance of which can scarcely be judged by the number of inward and outward references, which were respectively 12,322 and 8,601 in the year under report.

I have the honour to be,

Sir,

Your most obedient servant,

R. N. COYAJEE,

Revenue and Refund Audit Officer.

Appendix A.

STATEMENT of Balances examined quarterly during 1913-1914.

Number of Ward Clerks.	WARD.	Balances examined on 1st April 1913.		Balances examined on 1st July 1913.		Balances examined on 1st October 1913.		Balances examined on 3rd January 1914.		Total Balances examined during the year.	
		Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.
			Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a p.		Rs. a. p.
16	A—Fort and Colaba	295	34,477 2 3	2,430	3,98,376 2 8	306	39,573 5 6	2,636	3,94,489 11 10	5,667	8,60,916 6 3
11	B—Mandvi	53	4,775 15 7	2,164	2,67,392 14 5	109	12,062 11 3	2,623	3,53,351 7 11	4,949	6,87,583 1 2
14	C—Bhuleshwar	51	3,802 13 4	1,130	1,06,941 4 5	96	7,730 12 6	1,764	1,70,151 2 0	3,041	2,88,626 0 3
11	D—Girgaum	68	5,905 10 7	1,156	1,02,180 9 5	91	7,367 10 0	1,178	1,03,247 13 6	2,493	2,17,801 11 6
14	E—Byculla	70	3,142 10 6	1,042	72,546 10 6	139	5,796 0 6	1,057	82,180 11 11	2,308	1,63,666 1 5
7	F—Parel	53	855 12 1	692	20,969 4 0	63	3,687 0 10	455	22,693 11 1	1,263	48,205 12 0
8	G—Mahim	66	1,467 4 1	1,168	33,963 11 4	69	3,179 9 1	1,195	23,925 9 9	2,498	61,529 2 3
81	Total ...	656	53,517 4 5	9,782	10,03,375 8 9	873	79,397 3 5	10,906	11,49,038 4 0	22,219	22,84,328 2 10

Appendix B.

STATEMENT of entries in the Vehicle and Animal Tax Book checked during 1913-14.

Ward.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total.
A	948	1,087	1,179	1,327	4,541
B	671	672	704	742	2,789
C	892	950	1,005	1,060	3,907
D	1,288	1,384	1,524	1,656	5,852
E	721	796	848	878	3,243
F	278	294	312	325	1,209
G	239	258	269	292	1,058
Total ...	5,037	5,441	5,841	6,280	22,529

Appendix C.

STATEMENT of claims for $\frac{1}{3}$th Drawback scrutinized during 1913-14.

Ward.	1st Half of 1913-14.		2nd Half of 1913-14.		Total.	
	No. of claims received.	No. of claims admitted.	No. of claims received.	No. of claims admitted.	No. of claims received.	No. of claims admitted.
A	216	122	208	127	424	249
B	440	213	438	199	878	412
C	670	344	695	337	1,365	681
D	420	201	443	182	863	383
E	1,030	583	970	560	2,000	1,143
F	312	188	311	194	623	382
G	466	264	473	214	939	478
Properties owned by the City Improvement Trust ...	231	166	226	148	457	314
Total ...	3,785	2,081	3,764	1,961	7,549	4,042

Appendix D.

STATEMENT contrasting the Collections, Refunds and Net Revenue from Town Duties for the years 1912-13 and 1913-14.

NAME OF ARTICLE.	COLLECTIONS.				REFUNDS.								NET REVENUE.			
	1912-13.	1913-14.	Increase in 1913-14.	Decrease in 1913-14.	1912—13. On account of Exports.	1912—13. On account of articles supplied to Government.	1912—13. Total.	1913—14. On account of Exports.	1913—14. On account of articles supplied to Government.	1913—14. Total.	Increase in 1913-14.	Decrease in 1913-14.	1912-13.	1913-14.	Increase in 1913-14.	Decrease in 1913-14.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Grain at annas 6 per Candy	10,55,189 2 8	9,75,618 0 5	....	79,541 2 3	*6,28,218 14 0	....	6,28,218 14 0	*5,52,085 8 0	....	5,52,085 8 0	....	76,133 6 0	3,93,058 5 8	3,85,641 3 5	....	7,417 2 3
Flour at annas 4½ per Candy	1,654 2 0	833 3 0	....	820 15 0	35,566 1 0	....	35,566 1 0	33,754 8 0	....	33,754 8 0	3,188 7 0	....				
Sugar at annas 8 per Cwt.	19,54,380 12 2	21,51,182 13 9	1,91,802 1 7	....	13,38,527 1 0	....	13,38,527 1 0	15,97,593 9 0	2,410 11 0	15,95,004 4 0	2,56,477 3 0	....	6,20,853 11 2	5,56,178 9 9	....	64,675 1 5
Wines and Spirits at annas 4 per Imperial Gallon	2,68,508 8 10	2,63,146 1 9	....	357 7 1	34,137 8 0	....	34,137 8 0	38,331 6 0	....	38,331 6 0	4,193 14 0	....	2,29,366 0 10	2,24,814 11 9	....	4,551 5 1
Beer at pies 6 per Imperial Gallon ..	36,601 15 5	38,929 5 4	2,315 5 11	....	26,387 5 0	....	26,387 5 0	23,703 15 0	....	23,703 15 0	....	2,683 6 0	10,217 10 5	15,216 6 4	4,998 11 11	....
Ghee at annas 10 per Bombay Maund ..	2,58,210 12 5	2,71,867 14 0	13,657 1 7	....	20,333 10 0	....	20,333 10 0	16,049 13 0	....	16,049 13 0	....	4,283 13 0	2,37,877 2 5	2,55,818 1 0	17,940 14 7	....
Timber at 2½ per cent. on Market Value..	2,03,053 1 2	2,31,9.7 6 6	28,859 5 4	....	32,865 4 0	....	32,865 4 0	22,430 14 0	....	22,430 14 0	....	10,434 6 0	1,70,192 13 2	2,09,486 8 6	39,293 11 4	....
Firewood at annas 7 per Candy	70,327 10 8	69,738 3 9	....	589 6 11	....	....	....	....	....	....	....	....	70,327 10 8	69,738 3 9	....	589 6 11
			2,86,633 14 3	81,803 15 3							2,63,859 8 0	93,534 15 0			62,233 5 10	77,232 15 8
			85,506 15 3								93,534 15 0					62,233 5 10
Total Rs. ..	38,47,329 1 4	40,06,254 0 6	1,55,824 15 2		21,16,025 11 0	....	21,16,025 11 0	22,83,949 9 0	2,410 11 0	22,86,360 4 0	4,70,324 9 0		17,31,893 6 4	17,16,993 12 6		14,999 9 10

* This is made up as follows :—

At As. 4 per candy in respect of two old claims payable at that rate	19 0 0
At „ 6 „ „ current claims	6,28,199 14 0
	6,28,218 14 0

R. N. COYAJEE,

Revenue and Refund Audit Officer.

Appendix E.

STATEMENT contrasting the Imports, Exports and Balance of the several articles subject to Town Duty during the year 1913-14 with those for 1912-13.

NAME OF ARTICLE.	IMPORTS.				EXPORTS AND SUPPLY TO GOVERNMENT BY CONTRACTORS.								BALANCE (LOCAL CONSUMPTION AND STOCK).			
					1912-13.			1913-14.								
	1912-13.	1913-14.	Increase in 1913-14.	Decrease in 1913-14.	Exports.	Supply to Government.	Total.	Exports.	Supply to Government.	Total.	Increase in 1913-14.	Decrease in 1913-14.	1912-13.	1913-14.	Increase in 1913-14.	Decrease in 1913-14.
Grain at annas 6 per Candy—Candies ..	28,13,837	26,01,719	.....	2,12,108	* 16,75,275	.....	16,75,275	14,72,228	.....	14,72,228	.....	2,03,047	9,77,793	9,49,726	.....	28,067
Flour at annas 4½ per Candy—Candies ..	5,281	2,362	.....	2,919	1,26,458	.....	1,26,458	1,37,793	.....	1,37,793	11,335	.....				
Sugar at annas 8 per Cwt... .. Cwts.	39,18,761	43,02,365	3,83,604	.....	26,77,054	.....	26,77,054	31,19,008	.....	31,90,098	5,12,954	.....	12,41,707	11,12,267	.....	1,29,350
Wines and Spirits at annas 4 per Imperial Gallon.. .. ..Gallons.	10,54,014	10,52,384	.....	1,630	1,36,550	.....	1,36,550	1,53,325	.....	1,53,325	16,775	.....	9,17,464	8,98,239	.....	18,205
Beer at pies 6 per Imperial Gallon. Gallons.	11,71,359	12,45,451	74,092	.....	8,44,394	.....	8,44,394	7,58,526	.....	7,58,526	.....	85,868	3,26,965	4,86,925	1,59,960	.....
Ghee at annas 10 per Bombay Maund. Maunds.	4,13,137	4 84,988	21,851	.....	32,534	.....	32,534	25,680	.....	25,680	.....	6,854	3,80,603	4,09,308	28,705	.....
Timber at 2½ per cent. on Market Value. Value Rupees.	81 22,928	92,76,696	11,53,373	.....	13,14,615	.....	13,14,615	8,97,295	.....	8,97,295	.....	4,17,320	68,07,712	83,79,461	15,71,748	.....
Firewood at annas 2 per Candy—Candies.	5,62,622	5,57,906	.....	4,716	.....	.....	.....	.....	.....	.....	.....	.....	5,62,622	5,57,906	.....	4,716

* At As. 4 per candy in respect of two old claims payable at that rate .. 76

At As. 6 per candy in respect of current claims 16,75,199

16,75,275

R. N. COYAJEE,

Revenue and Refund Audit Officer.

PUBLIC WORKS.

		Pages.
A.	—Introductory Remarks	160
B.	—New Works, General	161 to 173
C.	—Drainage Loan Works	174 to 176
D.	—Drainage Ordinary Works	177 to 180
E.	—Regulations of Streets and Buildings	181 to 186
F.	—Roads, Footpaths, &c.	187 to 194
G.	—Public Lighting	195
H.	—Workshops, Inspection Motor Cars and Pumping, Compressor and Ejector Stations	196 to 203
I.	—General—Important Subjects, Bills, Notices and Correspondence, Summary of Clerical Work, Plague Operations and Municipal Servants' Act	204 to 209
J.	—Water Works (including the work done by the Special Officer and his staff)	210 to 219
K.	—Fire Brigade	221 to 229
L.	—Gardens	231 to 237
M.	—Victoria and Albert Museum	239 to 242

Note.—The report on Public Works—**A** to **I**—is by James W. Mackison, Esq., B.Sc., M. Inst. C.E., Executive Engineer, Municipality, forwarded with his letter No. G2326, dated the 16th May 1914.

The report on Water Works—**J**—is by H. J. Trivess-Smith, Esq., M.I.C.E., M.I.M.E., Hydraulic Engineer, forwarded with his letter No. W3434, dated the 3rd June 1914.

The report on Fire Brigade—**K**—is by T. C. Greenop, Esq., Chief Officer of the Fire Brigade, forwarded with his letter No. 794, dated the 29th May 1914.

The report on Gardens—**L**—is by C. D. Mahalaxmiwalla, Esq., Superintendent of Municipal Gardens, forwarded with his letter No. 666, dated the 30th May 1914.

The report on Victoria and Albert Museum—**M**—is by Cecil L. Burns, Esq., the Curator and Secretary, forwarded with his letter No. 69, dated the 16th May 1914.

No. G-2326 of 1914-15.

Executive Engineer's Office,

Bombay, *16th May* 1914.

To

The Municipal Commissioner

for the City of Bombay.

Sir,

I have the honour to forward herewith the Administration Report of the Department under my control for the year 1913-14 as requested in your No. 98, dated the 2nd April 1914.

2. The report is divided under the following heads :—

	Pages.
A.—Introductory Remarks	3 to 15
B.—New Works, &c., General	16 to 100
C.—Drainage, Loan Works	101 to 130
D.—Drainage, Ordinary Works	131 to 169
E.—Regulations of Streets and Buildings	170 to 191
F.—Roads, Footpaths, &c.	192 to 235
G.—Public Lighting	236 to 238
H.—Workshops, Inspection Motor Cars and Pumping, Compressor and Ejector Stations	239 to 296
I.—General important subjects reported upon Bills, Notices and Correspondence, Summary of Clerical Work, Plague Operations and Municipal Servants' Act	297 to 307

A.

INTRODUCTORY REMARKS.

ESTABLISHMENT.

3. The post of the Executive Engineer, Municipality, was held by me throughout the year 1913-14. I was assisted by the following Officers in conducting the duties of the different Branches of this Department:—

4. MR. B. H. HEWETT, A.M.I.C.E., Deputy Executive Engineer, Mechanical Branch, was in charge of the Mechanical Branch and supervised the working, repairs, and maintenance of the Love Grove Pumping Station, the Air Compressor Stations at Love Grove and Colaba, the Ejector Stations, the Municipal Workshops, the Electric Light Installation, &c.

5. MR. HEWETT was granted three months' privilege leave combined with three months' sick leave on half pay from the 5th May to 4th November 1913 and MR. GORDON P. CABLE was appointed to act for him during that period.

6. MR. GORDON P. CABLE held the post of 1st Engineer, Love Grove Pumping and Compressor Stations throughout the year except during MR. HEWETT'S absence on leave when MR. K. D. M. FORBES acted as 1st Engineer, *vice* MR. CABLE.

7. MR. NICHOLAS MAUGHAN, M. INST. C.E., M.R.S.I., assisted by MESSRS. DINSHA DADABHAI DARUWALA, L.C.E., A.M.I.C.E., M.R.S.I. and FRAMJI JAMSHEDJI BILIA, L.C.E., A.M.I.C.E. (Ireland), Assistant Engineers, Drainage, was in charge of the Drainage Branch.

8. MR. ALICK DUNN, M. INST. M. & C.E., held the post of Assistant Engineer for Buildings and Architecture throughout the year.

9. MR. KAIKHUSHRU PESTANJI BHEDWAR, L.C.E., Assistant Engineer, General Branch, continued to assist me in the general supervision and conduct of the work in this Department.

10. MESSRS. MUNCHERJI EDULJI JOSHI, L.C.E., ATMARAM BASKER VAIDYA, L.C.E., NASARWANJI DINSHA MISTRY, L.C.E., and JAYME RIBEIRO, L.C.E., (Building Superintendents) assisted me in matters connected with the administration of the Building Sections of the Municipal Act and Bye-Laws.

11. MR. VAIDYA was granted three months' privilege leave from the 1st April 1913 and MR. BURJORJI MUNCHERJI NARIMAN was appointed to act for him during that period.

12. MR. MISTRI was granted two months and fourteen days' privilege leave from the 20th June 1913 and MR. BURJORJI MUNCHERJI NARIMAN was appointed to act for him with effect from the 1st July 1913.

13. MR. AMRITLAL VITHALDAS THACKER, L.C.E., Road Superintendent, continued to be in charge of the Road Branch up to the 1st February 1914.

14. MR. THACKER resigned his appointment from the 2nd February 1914 and MR. JAMSHEDJI JIJIBHAI PASTAKIA was put in charge of the Road Branch pending permanent arrangements for filling up MR. THACKER'S post.

15. MR. DINSHA FRAMJI SHROFF was appointed to the post of Architectural Surveyor on six months' probation from the 1st October 1913 and continued to hold that appointment up to the close of the year. He supervised the preparation of plans and estimates and the construction of new buildings during the year. He also assisted the Department in the execution of works carried out by the General Branch in connection with the erection of temporary health camps and other measures for the suppression of Plague.

B

NEW WORKS, &c.

16. Subjoined is a list of New Works, each costing over Rs. 3,000.

17. They are divided into two classes as follows :—

(1) Works sanctioned, but not undertaken at the close of the year, and

(2) Works in progress at the close of the year.

LIST OF NEW WORKS, EACH COSTING OVER Rs. 3,000.

Consecutive Number.	Description of Work.	Sanctioned Grant.	Expenditure up to the end of March 1914.	REMARKS.
	WORKS SANCTIONED, BUT NOT UNDERTAKEN AT THE CLOSE OF THE YEAR.	Rs. a. p.	Rs. a. p.	
	A.—Buildings and Sanitary Structures.			
1	Construction of stables and chawls for D Ward bullocks and bigaries at Gilder Tank site.	1,20,568 2 7 1,26,807 8 0 2,47,375 10 7	1,26,807 8 0 1,438 2 0 1,28,245 10 0	Gilder Tank site has been abandoned and contract drawings and quantities are being prepared for the erection of the stables and chawls on the land acquired at Annesly-Road.
2	Construction of a stable for bullocks at Mahim.	10,000 0 0 9,136 0 0 919,136 0 0	81 9 0	The land on which the proposed stable is to be erected has not yet been placed at the disposal of the Municipality by the Collector of Bombay.
3	Construction of shops on the Western and the Southern sides of A. C. Markets.	38,732 0 0	4,822 7 10	Revised plans and estimates have been approved by the Corporation under their Resolution, No. 5360 of 4th December 1913. The Municipal Commissioner has decided that the work should be included in the Budget for 1915-16.
4	Market at Chaupati... ...	17,000 0 0 58,000 0 0 75,000 0 0	63 0 0	The question of a site for the market has not been settled.
5	Construction of New Ward Offices at Babula Tank for the Assessment and Health Departments.	34,000 0 0	48 6 0	The Commissioner has decided that the matter should be kept in abeyance pending the decision of the Corporation as regards the disposal of the land reclaimed from the Babula Tank.
6	Construction of Chawls for Begaries of Health Department at Cochin Street.	65,476 0	.....	The Executive Health Officer's proposal for the construction of the chawls for the Begaris on Paltan Road is under consideration.

New Works, &c.—*continued.*

Consecutive Number.	Description of Work.	Sanctioned Grant. Rs. a. p.	Expenditure up to the end of March 1914. Rs. a. p.	Remarks.
	WORKS SANCTIONED BUT NOT UNDERTAKEN AT THE CLOSE OF THE YEAR—*contd.*			
	A—Buildings and Sanitary Structures—contd.			
7	Providing Bungalows for Engineers and quarters for servants, Engine Drivers, etc., at Love Grove Pumping Station.	2,38,958 0 0	1,437 8 0	Plans and estimates for the work are being prepared and negotiations for the acquisition of the necessary land are in progress.
8	Construction of a small slaughter house at DeLisle Road Sheep Market.	5,333 0 0	.....	The Commissioner has directed that the matter should be kept in abeyance pending the decision of the Corporation as regards the widening of DeLisle Road.
9	Construction of a store room and shed for motors at Tardeo Flats.	3,000 0 0 1,356 0 0 4,356 0 0	37 0 8	The Commissioner's orders are awaited with regard to the tender which has been received from Messrs. Allikhan Fatehkhan & Co., for the execution of the work.
	C.—Drainage.			
10	Cutting out rocky barriers in channel of Love Grove.	16,914 0 0	416 6 0	This work will have ultimately to be abandoned if it is decided to do away with the Love Grove sluices. The matter was referred to the Consulting Engineer whose report on the subject has been received and is under the consideration of the Corporation.
11	Laying a 15″ pipe sewer from the Wellington fountain to the Head Manhole of the Mint Road ovoid sewer.	30,539 0 0	.....	Arrangements are being made for the execution of this work and tenders have been invited for the supply of the pipes.
12	Laying 9″ pipe sewer and raising a 6″ drain in the passage to the north of Low Level Channel No. II, DeLisle Road, New Parbadevi.	9,217 0 0	915 0 0	Tenders for the 6″ C. I. pipes have been received and the tender of Messrs. Macbeth Brothers has been recommended for acceptance. The work will be started on receipt of the pipes.
13	Laying 9″ stoneware pipe sewer in the locality known as Saitan Chowki near Khed Tank off Parbhadevi Road.	12,514 0 0	.....	This work has been abandoned and a new scheme has been proposed for which the Commissioner's orders are awaited.

New Works, &c.—*continued.*

Consecutive Number.	Description of Work.	Sanctioned Grant.	Expenditure up to the end of March 1914.	Remarks.
	WORKS SANCTIONED BUT NOT UNDERTAKEN AT THE CLOSE OF THE YEAR—*contd.*	Rs. a. p.	Rs. a. p.	
	C.—Drainage—contd.			
14	Providing 9" and 12" pipe Sewers in Sleater Road.	5,585 0 0	.....	Arrangements will be made for the invitation of tenders as soon as the Commissioner's sanction for the same is received.
15	Relieving arches at Falkland Road.	5,000 0 0	.....	Commissioner's sanction has been applied for to carry out the work departmentally and the same will be started as soon as the sanction for the same is received.
16	Permanent manholes over drains.	3,000 0 0	.....	Do. do.
17	Storm-water drain in Victoria Gardens.	4,500 0 0	.....	Do. do.
18	Filling in the open side drain and providing water gullies and water tables and connecting the existing S. W. drain to the S. W. drain in Girgaum Road, and constructing a S. W. drain with water gullies and water tables at Charni Road.	6,442 0 0	.....	Arrangements will be made for the invitation of tenders as soon as the Commissioner's sanction for the same is received.
19	Providing fair weather C. I. concrete covers and frames for water entrances and removing obsolete perforated stones and constructing new type water gullies in the whole of A. Ward.	10,000 0 0	.....	Estimate for the work is under preparation. It will be started after obtaining the Commissioner's sanction to carry out it departmentally.
	D.—Water Works.			
20	Providing quarters and offices for water works Inspectors in A, B, C, E and F Wards.	30,000 0 0	.....	The work of providing quarters for the employés in F Ward is estimated to cost Rs. 34,139. The Municipal Commissioner has sanctioned the expenditure partly from the Budget grant of Rs. 30,000 provided for constructing quarters in A, B, C, E and F Wards and partly from the sum of Rs. 21,261 provided in the Budget for constructing quarters on the Bubula Tank site. A revised plan and estimate for the work are under preparation and will be forwarded to the Commissioner shortly.

New Works, &c.—*continued.*

Consecutive Number.	Description of Work.	Sanctioned Grant.	Expenditure up to the end of March 1914.	REMARKS.
		Rs. a. p.	Rs. a. p.	
	WORKS SANCTIONED BUT NOT UNDERTAKEN AT THE CLOSE OF THE YEAR—*concld.*			
	D.—Water Works—contd.			
21	Construction of quarters for the Water Works Office Staff on the Babula Tank site.	21,261 0 0	.....	The Municipal Commissioner has decided that the sum provided for the work should be partly utilized for providing quarters for the A and F Wards staff of the Water Works Department and partly for providing quarters for the Road Inspector, etc., in A Ward. The plans and estimates for the quarters are being revised as suggested by the Hydraulic Engineer.
22	Pulling down and re-building a portion of the building occupied by the Superintendent, Maintenance Branch, at Chinchpokli.	10,086 0 0	.....	This work has been kept in abeyance pending the settlement of the question of a new site for the Central Stores.
	E.—Cemeteries.			
23	Providing a compound wall at the Worli Cemetery.	5,873 0 0	.....	Arrangements are being made for inviting tenders for the execution of the work.
24	Providing a wall for protecting the Mahim Burning and Burial ground from the inroads of the sea.	12,953 0 0	1,144 2 8	The matter is under consideration.
	G.—Miscellaneous.			
25	White washing, colour washing and oil painting cages in the Victoria Gardens.	4,415 0 0	16 10 0	Tenders for the work have been invited.

New Works, &c.—*continued.*

Consecutive Number.	Description of Work.	Sanctioned Grant.	Expenditure up to the end of March 1914.	Probable date of completion.
		Rs. a. p.	Rs. a. p.	
	WORKS IN PROGRESS AT THE CLOSE OF THE YEAR.			
	A—Buildings and Sanitary Structures.			
26	Construction of chawls for Halalkhores at Tardeo Flats.	86,400 0 0	1,309 15 3	18th December 1914.
27	Construction of stables and chawls for B. Ward at Jail Road.	1,92,300 0 0	1,35,232 1 11	1st June 1914.
28	Construction of a stable for E. Ward, West, at Kamathipura.	75,000 0 0	43,533 7 0	30th April 1914.
29	Construction of 25 bathing places in the City.	35,739 0 0	20,505 12 3	31st October 1914.
30	Construction of buildings for Primary Schools.	5,00,000 0 0	1,30,584 5 11	15th March 1915.
31	Construction of a slaughter house at Arthur Road for Killing Pigs.	7,275 0 0	44 1 1	9th July 1914.
32	Construction of a New Hospital on Tardeo Flats for animals suffering from infectious diseases.	16,848 0 0	36 1 0	25th July 1914.
33	Extension of Dhobiwada at Mahaluxmi by 50 stones.	17,020 0 0 17,021 0 0	19,093 9 9	14th April 1914.
		34,041 0 0		
34	Painting of the A. C. Market..	5,500 0 0	1,218 8 0	31st May 1914.
35	Rebuilding of the Wards at the Maratha Hospital.	20,000 0 0	47 0 8	14th August 1914.
	B—Roads and Overbridges.			
36	Overbridge at Elphinstone Road, B. B. & C. I. P. Railways.	3,57,762 0 0	2,37,282 9 1	Almost completed.
37	Overbridge at Currey Road, G. I. P. Railway.	7,16,563 0 0	5,64,486 0 0	End of 1914.
38	Overbridge at Clarke Road, B. B. and C. I. Railway.	3,03,000 0 0	64,709 7 10	Uncertain.
39	Overbridge at DeLisle Road...	10,80,000 0 0	6,81,612 8 9	Do.
40	Construction of a road from Mount Road (through Rose Cottage Lane) to Matharpakhadi.	26,805 0 0	132 4 0	About the beginning of July 1914.

New Works, &c.—*continued.*

Consecutive Number.	Description of Work.	Sanctioned Grant.	Expenditure up to the end of March 1914.	Probable date of completion.
		Rs. a. p.	Rs. a. p.	
	WORKS IN PROGRESS AT THE CLOSE OF THE YEAR—*contd.*			
	B—Roads and Overbridges—contd.			
41	Construction of a road from B. B. & C. I. Railway, Matunga Station, westward to Lady Jamshedji Road, Land to be acquired for 60 feet road to be of 40'	1,94,270 0 0	1,39,556 15 8	31st August 1914.
42	Construction of a 60 feet road along Tulsi Pipe line from DeLisle Road to Dadar Road.	3,38,908 0 0	2,117 9 2	Uncertain.
	C.—Drainage.			
43	Completion of house drainage connections in the different parts of the city.	8,56,526 0 0 3,252 0 0	7,99,802 15 8	Do.
		8,53,274 0 0		
44	Sewerage of the Elphinstone Reclamations District.	3,41,362 0 0	79,898 12 0	5th May 1914.
45	Giving street connections to storm-water drain in the City.	17,895 9 3	17,293 12 0	28th February 1915.
46	Construction of a S. W. drain from the junction of Connaught and Reay Roads to Kalachauki and Suparibag Roads.	8,22,000 0 0	2,87,884 6 0	1st May 1914.
47	Constructing S. W. drain in Petit Orphanage compound and Parel Tank Road.	8,22,000 0 0	1,35,156 5 6	16th July 1914.
48	Measures for relieving the surcharging of sewers.	18,68,632 0 0	15,61,568 1 0	31st December 1914.
49	Provision of ejectors in the Colaba Sub-Districts.	99,265 0 0 7,465 0 0	1,02,286 7 4	30th April 1914.
		1,06,730 0 0		
50	Construction of the 1st Section of new outfall at Worli point.	9,81,199 0 0	71,728 0 0	31st May 1914.

NEW WORKS, &c.—*continued.*

Consecutive Number.	Description of Work.	Sanctioned Grant.	Expenditure up to the end of March 1914.	REMARKS.
	WORKS IN PROGRESS AT THE CLOSE OF THE YEAR—contd.	Rs. a. p.	Rs. a. p.	
	C—Drainage—contd.			
51	Laying 9" pipe sewer in the east of Victoria Terminus Station joining with Mint Road ovoid sewer.	5,459 0 0	27 14 0	23rd May 1914.
52	Substituting ejectors of 700 gallons capacity in place of the existing ones of 250 gallons in Mazagon No. 2 District.	19,762 0 0	5,772 10 9	15th June 1914.
53	Laying a S. W. pipe drain along Mahim Bazar Road.	5,188 0 0	4,223 15 3	Do.
54	Constructing a wooden fence and brick Masonry wall for the Compound of the Chief Inspector's Chauki at Babula Tank Road.	5,551 0 0	2,395 5 9	Do.
55	Opening and examining 9" pipe sewer in Colaba Road and replacing it by cast iron pipes.	46,200 0 0 5,000 0 0 51,200 0 0	45,159 11 3	28th February 1915.
56	Remodelling drainage arrangements in Arthur Crawford Markets.	8,878 0 0 4,339 0 0 13,217 0 0	12,845 12 1	Do.
	E.—Cemeteries.			
57	Filling in a portion of Harries Road Cemetery.	10,000 0 0	4,999 4 0	7th June 1914.
	G.—Miscellaneous.			
58	Construction of a fountain at Chaupati.	7,000 0 0	238 11 4	30th April 1914.
59	Improvement of Bhatia Bag.	71,203 0 0	10,449 4 7	31st August 1914.
60	Improvement of gradients of Forjett Street.	15,794 12 2	.....	About the end of June 1914.

NEW WORKS.

18. The following works, which have been referred to in the last year's Administration Report, were completed at the total costs noted against each :—

	Rs.	a.	p.
Construction of Bigaris' chals at Arthur Road	1,10,313	9	7
Construction of Overseers' quarters in the Victoria Gardens... ...	6,459	6	3
Construction of boundary wall and barbed wire fence to the Hindu Cemetery at Haines Road, Worli	13,459	1	6

BATHING PLACES.

19. Construction of 25 bathing places in the City.

20. Out of the proposed 25 bathing places, 11 have been constructed at a total cost of Rs 20,505-12-3.

21. The Municipal Commissioner having sanctioned the construction of three more bathing places at Clerk Road, at the junction of Haines Road and DeLisle Road and Kamatipura 15th Street, arrangements were made to invite tenders for the work.

Construction of shops on the southern and western frontages of the Arthur Crawford Markets.

22. Plans and estimates for the proposed extension of the market were forwarded to the Commissioner and approved by the Corporation.

23. The execution of the work has been deferred pending the sanction of a grant for the same.

Construction of a protecting wall at Mahim Cemetery.

24. The matter was under consideration at the close of the year.

Construction of a stable at Kamatipura 10th Street.

25. This work is in progress.

26. The certified expenditure upto the 31st March 1914 was Rs. 43,533-7-0.

Construction of stables, &c., at Jail Road, north.

27. This work is nearing completion.

28. The certified expenditure on the work upto the 31st March 1914 amounted to Rs. 1,35,232-1-11.

Construction of stables and chals for D Ward bullocks and bigaris.

29. The Widows' Home at Annesley Road was acquired as a site for this work and plans and estimates have been prepared and are under consideration.

Construction of stables for bullocks at Mahim.

30. The tender of Messrs. Napoo Patramal & Co. for this work was accepted by the Standing Committee under their Resolution No. 7106, dated the 5th March 1913. It was, however, subsequently found that the land on which the stables were to be erected was leased to the Municipality by Government for the provision of a public garden at Mahim.

31. Application was therefore made by the Municipal Commissioner to the Collector of Bombay to allow the Municipality to build on the land and the latter officer's reply in the matter was awaited at the close of the year.

Construction of chals for halalkhors at Tardeo Flats.

32. A sum of Rs. 85,090 having been provided for the work in the Budget for 1913-14, a proposal for constructing about 377 semi-permanent huts was forwarded to the Commissioner and after receiving his approval tenders for the work were invited.

33. The tender of Messrs. Virji Tejoo & Co., being the lowest of the five tenders received, was accepted for Rs. 92,761-1-5, and an additional grant of Rs. 24,600 was sanctioned for the work under the Corporation's Resolution No. 6616, dated the 2nd February 1914.

Market at Chaupati.

34. The question of a site for the proposed market was under the consideration of a Committee of the Corporation at the close of the year.

Construction of New Ward Offices at Babula Tank for the Assessment and Health Department.

35. A sum of Rs. 34,000 having been provided in the Budget for 1913-14, tenders were invited for the work, but none was accepted, as a Committee of the Corporation was considering the question of the utilization of the land reclaimed from Babula Tank. The matter was not disposed of at the close of the year.

Construction of chals for bigaris of the Health Department at Cochin Street.

36. A sum of Rs. 65,476 having been provided for the work in the Budget for 1913-14 a proposal was forwarded to the Commissioner for the construction of a chal containing 20 rooms.

37. The matter has been deferred pending the settlement of the question of erecting buildings on Palton Road.

Providing Bungalows for Engineers and quarters for engine-drivers and other employes at the Love-grove Pumping Station.

38. Negotiations for the acquisition of land required for the Bungalows and quarters are proceeding.

39. The revised plans and estimates are under preparation.

Construction of a small Slaughter-house at the DeLisle Road Sheep Market.

40. Revised plans and estimates for this work were prepared, but as the Delisle Road Market is included in a scheme for the widening of DeLisle Road, the Municipal Commissioner has issued instructions to keep the matter in abeyance.

Rebuilding of the Wards at the Maratha Hospital.

41. A sum of Rs. 20,000 having been provided in the Budget for 1913-14, estimates for overhauling two wards and constructing a cook-room and mortuary, amounting to Rs. 8,768 and 8,915 respectively, were forwarded to the Municipal Commissioner and tenders were invited for the work.

42. Messrs. Ramji Keshavji & Co.'s tender, amounting to Rs. 16,462-14-8 being the lower of the two tenders received, was accepted.

Construction of a motor shed and store-room at the Tardeo Flats.

43. A grant of Rs. 4,356 having been sanctioned for this work under the Municipal Commissioner's No. 13704 of the 19th August 1913, tenders were invited; and out of four tenders received the tender of Messrs. Allikhan Fatehkhan & Co. was recommended for acceptance.

Primary Schools.

44. The work of constructing a primary school at Ardeshir Dadi Street was in progress at the close of the year, and the certified expenditure thereon amounted to Rs. 32,791-11-0 upto the end of March 1914.

45. Negotiations for acquiring plots Nos. 9 and 10, situated at Mandvi Koliwada, were opened with the Improvement Trust, and it was arranged to purchase the former, measuring 531 square yards and the latter 513 square yards at the rates of Rs. 70 and Rs. 80 per square yard respectively.

46. The deed of conveyance in respect of the plots was under preparation by the Municipal Solicitors.

47. Plans for the Babula Tank and Mandvi Koliwada Schools are under preparation.

48. Three more sites, *viz.*, (1) at Mustan Tank, (2) Jain Temple premises, opposite the Hindu Orphanage at Parel Road, and (3) near the Matharpakhadi Road were selected for the schools.

Construction of a slaughter-house at Arthur Road for killing pigs.

49. A sum of Rs. 7,275 having been provided for the work in the Budget for 1913-14, tenders were invited and the lowest tender of Messrs. S. J. Desai & Co. was accepted.

50. As this tender amounted to Rs. 9,584, an additional grant of Rs. 2,309 was sanctioned under the Corporation's Resolution No. 6225, dated the 15th January 1914.

Fountain at Chaupati.

51. A donation of Rs. 7,000 having been received from Bai Gangabai, widow of the late Mr. Gangadas Rangildas, tenders were invited for the work; but as no tenders were received the offer of Messrs. Ramji Keshavji & Co. to carry out the work at the Office estimated rates was accepted. The work is in progress and the certified expenditure upto the end of March 1914 amounted to Rs. 238-11-4.

New Hospital for cattle suffering from Infectious Diseases on Tardeo Flats.

52. The Corporation having (under their Resolution No. 3424, dated the 15th September 1913) sanctioned a grant of Rs. 16,848 for this work; tenders were invited, and Messrs. Allikhan Fatehkhan & Co.'s tender, being the only one received, was accepted by the Standing Committee under their Resolution No. 6938, dated the 13th February 1914.

Extension of the Dhobiwada at Mahalaxmi.

53. A sum of Rs. 17,020 having been provided for the work in the Budget for 1912-13, tenders were invited, and that of Messrs. Napoo Patramal & Co. was accepted. There being a further sum of Rs. 17,021 provided in the Budget for 1913-14, it was proposed by this Office to entrust both the works to Messrs. Napoo Patramal & Co. and to have them executed simultaneously.

54. This proposal was sanctioned by the Standing Committee under their Resolution No. 2429, dated the 23rd July 1913.

55. The work is in progress and the certified expenditure upto the end of March 1914 amounted to Rs. 19,093-9-9.

Painting of the Arthur Crawford Markets.

56. Out of the Budgetted grant of Rs. 5,500 for painting markets and slaughter-houses, a sum of Rs. 5,200 was allotted by the Commissioner for painting the Fruit and Vegetable sections of the Arthur Crawford Markets.

57. Tenders were invited for the work, and that of Mr. B. Nowroji, being the lowest, was accepted.

58. The work is in progress and the certified expenditure upto the end of March 1914 was Rs. 1,213-8-0.

Construction of quarters for the Water Works Office on the Babula Tank site and in A, B, C, E and F Wards.

59. The Municipal Commissioner proposed that the sums of Rs. 21,264 and 30,000 allotted for these works be utilized in providing quarters for the A and F Wards staff of the Water Works Department and for Road Inspector, Assistant Road Inspector and bigaris of the Road Branch of "A" Ward; and a further grant of Rs. 15,962 was sanctioned under the Corporation's Resolution No. 4720, dated the 13th November 1913, to meet the total cost of the works, which was estimated to amount to Rs. 67,223.

Pulling down and reconstructing a portion of the building occupied by the Superintendent of Maintenance Branch at Chinchpokli.

60. This work, which was sanctioned in the Budget for 1913-14, was kept in abeyance, pending the settlement of the question of a new site for the central stores.

Construction of an Office for the Building Inspector, G Ward.

61. This work, which was provided in the Budget for 1913-14, was allowed to stand over, pending the settlement of a scheme for the improvement of DeLisle Road.

Filling in a portion of Haines Road Cemetery.

62. A sum of Rs. 10,000 having been provided in the Budget for the work, tenders were invited and that of Messrs. Napoo Patramal & Co. was accepted.

63. The contract work was completed at a cost of Rs. 4,999-4-0.

64. Proposals for utilizing the savings in filling up a further portion of the cemetery were forwarded to the Commissioner, and the same having been approved, arrangements were being made to enter into a fresh contract for the work with the same contractors.

Whitewashing and painting cages in the Victoria Gardens.

65. A sum of Rs. 4,415 having been allotted for this work out of the grant provided under "Section IV, Repairing and Painting Buildings, seats, etc., in the Victoria Gardens," arrangements were made to invite tenders for the work.

Filling in Tanks.'

66. The Corporation under their Resolution No. 6460, dated the 6th February 1913, sanctioned the filling in of the undermentioned tanks :—

1. Framji Cowasji Tank at Dhobitalao,
2. Cowasji Patel Tank at Khetwadi,
3. Mustan Tank at Nagpada, and
4. Nawab Tank at Mazagon.

67. A grant of Rs. 5,000 was sanctioned for the work under the Corporation's Resolution No. 2675, dated the 4th August 1913.

68. The filling in of the first two tanks was carried out departmentally with waste materials and road scrapings.

69. The filling in of the Mastan and Naigam Tanks was also being carried out departmentally with road sweepings, &c., available from the neighbourhood, and was in progress at the end of the year.

70. The certified expenditure on the work amounted to Rs. 3,832-6-2.

Constructing new Roads.

71. The construction of a new road, 60 ft. wide, running east to west from the B. B. & C. I. Railway Matunga Station across Lady Jamsetji Road to Mahim Bazar Road was sanctioned.

72. The work was taken in hand by Messrs. Virji Teju & Co., contractors, on the 1st September 1913.

73. The road is about 3,100 ft. in length and 36 ft. wide and has 12 feet footpaths on either side, which it is intended partially to pave.

74. The work was well advanced at the close of the year and roadway is already being much taken advantage of by pedestrians.

75. The grant sanctioned for the work is Rs. 2,37,000, including the cost of acquiring the land and properties.

76. The certified expenditure on the work is Rs. 47,149-12-10.

Improvement of Bhatia Bag.

77. The question of laying out the Bhatia Bag, which was pending before a Committee of the Corporation, was disposed of by the Corporation under their Resolution No. 6461, dated the 6th February 1913, and a grant of Rs. 1,26,199 was sanctioned for the work under the Corporation's Resolution No. 848, dated the 5th May 1913.

78. The works of laying out paths, coping with necessary foundation for C. I. ornamental railing and also Shahabad stone footpath, 15 feet wide, all round the garden, were completed before the close of the financial year. The work of laying out the garden will be taken in hand after the fixing of the railing for which a design is being prepared by Mr. Wittet.

Numbering of houses.

79. In order to obviate the difficulty hitherto experienced in locating houses and business premises, an experimental system of fixing number plates on prominent positions has, with the approval of the Corporation, been introduced.

80. Number plates have been fixed in the following streets :—

(1) Improvement Trust Estate at Hornby Road.

(2) Apollo Reclamation.

(3) Colaba Reclamation.

(4) Roads in the Marine Lines Estate.

(5) Wodehouse Road with Cross Roads.

(6) Cruickshank Road.

Revision of the Municipal Property List.

81. The work of revising the list of Municipal properties has been taken in hand by this Department from the 1st October 1912.

82. The work appertaining to Wards, A, B and C, comprising 289 properties, has been completed and good progress has been made with that relating to D Ward.

83. The work consists of investigating the titles of the several properties, the dates of their acquisition, of construction, the remeasuring of their areas, the ascertaining of their original and present values and the preparation of their plans. A record of the information collected on all these points is kept in a book and the plans of the properties are drawn and preserved in a separate volume.

Overbridges.

84. During the year the Clerk Road Overbridge, G. I. P. Railway, was opened to the public.

85. The Elphinstone Road Overbridge was completed and tested. The Railway authorities have been requested to rectify some minor defects in the work.

86. The G. I. P. Railway Company carried out the major portion of the four approach walls, the east abutment and the filling in of the approaches of the Currey Road Overbridge. In order to give an easier gradient to the east approach of this overbridge from 1 in 30 to 1 in 37, an additional property was acquired by the Municipality.

87. The land required for the Clerk Road Overbridge, B. B. & C. I. Railway, was made available for the construction work being taken in hand, but as the necessary funds had not been sanctioned by the Railway Board work was not commenced.

88. The properties required for the DeLisle Road Overbridge, B. B. & C. I. Railway, according to the alignment of 50 feet width, have been acquired by the Municipality. A proposal has been submitted to the Corporation to increase the width of this Overbridge to 80 feet and the necessary steps will be taken to acquire the properties required for the purpose when this proposal is sanctioned by the Corporation.

89. The properties acquired for the Currey Road and DeLisle Road Overbridges, which are not pulled down, have been rented to private parties.

90. The certified expenditure incurred by the Municipality for all the Overbridges during the year amounted to Rs. 2,18,232-1-1.

91. The question of the location of the Dadar Road Overbridge has now been settled between the City Improvement Trust, the Municipality and the two Railway Companies. The G. I. P. Railway authorities are preparing detailed plans for this Overbridge. The Municipal share of the cost of this work is estimated at about 4 lakhs.

92. The following statement shows the names of the Overbridges under construction, the amount of the Corporation's liability in respect thereof and the amount actually expended by the Municipality on each of them upto the 31st March 1914:—

Names of the Overbridges.	Amount of liability of the Municipal Corporation.			Amount paid upto 31st March 1914.		
	Rs.	a.	p.	Rs.	a.	p.
Elphinstone Road Overbridge (G. I. P. Railway and B. B. & C. I. Railway)...	30,00,000	0	0	2,46,229	10	10
Currey Road Overbridge (G. I. P. Railway)				5,85,366	3	5
Arthur Road Overbridge (G. I. P. Railway)				1,96,719	0	4
Clerk Road Overbridge (G. I. P. Railway)				3,15,819	7	7
Clerk Road Overbridge (B. B. & C. I. Railway)				65,315	5	10
DeLisle Road Overbridge (B. B. & C. I. Railway)				6,68,719	2	6
Total ...	30,00,000	0	0	20,58,863	8	6

Disposal of Town Sweepings in the City, Kurla-Deonar Railway Works.

93. About 1,150 old pine wood sleepers were removed and replaced by new half round teak sleepers on the main line at a cost of Rs. 8,355-7-6.

94. Sixty coir mat covers for kutchra wagons and 4 tarpaulin covers for drain wagons were provided during the year at a cost of Rs. 1,518-2-3.

95. A portion of the Municipal land at Kurla, situated in front of the Inspector's quarters and occupied by the old kutchra siding, the existing kutchra siding and the Vehar Main, *all* admeasuring 5 acres, 21 gunthas and 4 annas, was handed over to the G. I. P. Railway on the 5th May 1913 for use in connection with the quadrupling of their lines.

Area reclaimed.

96. The additional area reclaimed during the year was about 8 acres, bringing the total to 158 acres.

97. There was no fire in the kutchra or accident to any of the kutchra trains during the year.

98. Only one kutchra train was run throughout the year, as kutchra was being utilized in reclaiming the storm-water reservoir on the north of Clerk Road and west of the Race-Course.

99. There was no epidemic during the year and there were only two deaths amongst the labour staff consisting of about 350 persons. This indicates that the general health of the staff was in a very satisfactory condition.

100. The maintenance of the School at Deonar, which was established by the Depressed Classes Mission, about seven years ago, was continued and the attendance at the school was fairly good throughout the year.

C

Drainage Loan Works.

MALABAR HILL SECTIONAL SEWERAGE WORKS.

101. No damage of any kind was done either to the Sea walls or to the Biological Installation during the last rains.

CUTTING OUT ROCKY BARRIERS IN THE CHANNEL AT LOVE GROVE.

102. This work is still held in abeyance, and it is now almost certain that it will be rendered unnecessary owing to the decision of the Corporation to extend the Sewage Outfall further out into the Sea and the proposal to do away with the existing Love Grove Sluices and to divert all the waters of the low lands of the City to the Worlee Outfall. Mr. Taylor's report regarding the diversion of the storm waters to Worlee was considered by the Municipal Engineers and the Commissioner, and certain questions arising out of the same were referred back to Mr. Taylor for consideration and further report. This report has been received and is under consideration.

LARGER EJECTORS IN THE COLABA SUB-DISTRICTS Nos. III, IV AND V.

103. The Ejectors Stations Nos. III and IV are working satisfactorily.

104. As regards Station No. V, the new Ejectors were received in Bombay at the end of April 1913, and were erected by the Municipal Workshops. The whole of the work is nearing completion.

105. The total certified expenditure up to the end of the year amounted to Rs. 1,02,179-3-11.

SURFACE DRAINAGE OF HIGH LANDS.

106. The storm water drains in Reay Road, Connaught Road and Parel Road worked very satisfactorily during the year.

FOUNDATIONS AND SUPERSTRUCTURE OF THE NEW ENGINE HOUSE AT LOVE GROVE.

107. The masonry works have been completed by the Contractors (Messrs. Teju Kaya & Co.,) and the Roof work has been carried out by Messrs. Geo. Gahagan & Co.

108. Messrs. The Lilleshall Co., Ltd., have almost completed the fixing of the machinery, and it is expected that the Engines will be started for work in May 1914.

109. The certified expenditure up to the end of the year amounted to Rs. 2,61,030-12-0.

NEW BOILER HOUSE AT LOVE GROVE.

110. The boiler house which was entrusted to Messrs. Teju Kaya & Co. in accordance with the Standing Committee's Resolution No. 4975, dated the 27th November 1912, was completed by the Contractors on the 17th January 1914. The delay in the completion of the work was due to the suspension of the work for a time pending the erection of the boilers. The Contract date for the completion of the work was 9th June 1913. The Roof of the boiler-house was erected by Messrs. Garlick & Co., and the erection of all the boilers, economisers, etc., was completed by Messrs. The Lilleshall Co., Ltd., during the year.

111. The certified expenditure up to the end of the year amounted to Rs. 84,654-7-9.

EXTENSION OF THE LOW LEVEL CHANNEL No. II FROM DE LISLE ROAD TO DADAR ROAD.

112. Some further pieces of land through which the channel was constructed under the powers reserved to the Commissioner under Section 222 of the Municipal Act were purchased by the Municipality during the year. There are now very few plots to be acquired and negotiations with the owners are proceeding in the matter.

113. The certified expenditure up to the end of the year amounted to Rs. 2,77,508-5-7.

STORM WATER DRAIN IN SOPARI BAG ROAD.

114. This work was let to Messrs. Teju Kaya & Co. in accordance with the Standing Committee's Resolution No. 5299, dated the 12th December 1912. The work was completed by the Contractors on 14th June 1913, *i. e.*, 2 months and 14 days before the Contract period, which expired on the 6th September 1913.

115. The certified expenditure up to the end of the year amounted to Rs. 2,12,304-14-0.

STORM WATER DRAIN IN REAY ROAD FROM CONNAUGHT ROAD TO KALACHAUKI ROAD.

116. Tenders for this work were invited and made returnable on the 21st March 1913. Four tenders were received, out of which that of Messrs. Alli Mahomed Haji Kasam & Co., being the lowest, was accepted by the Standing Committee under their Resolution No. 380, dated the 16th April 1914. The work was very nearly completed by the Contractors, and the contract date for its completion is 30th April 1914.

117. The certified expenditure up to the end of the year amounted to Rs. 2,86,032-12-6.

SEWERAGE OF THE NORTH OF THE ISLAND.

118. Mr. Taylor's report on the Sewerage of the North of the Island with special reference to the type of power to be adopted at the Pumping Station was received during the year, and is now under the consideration of the Municipal Commissioner.

119. A scheme regarding the main sewers to be laid in this district was prepared and submitted to the Commissioner. This was placed before the Corporation and approved under their Resolution No. 6826, dated the 5th February 1914. This work will be taken in hand after the rains of 1914-15.

ADDITIONS TO THE MAIN SEWERS DUE TO THE DUPLICATION OF THE TANSA MAIN.

120. The Municipal Commissioner's report on the subject was duly considered by a Committee of the Corporation, and on their recommendation, the Corporation, under their Resolution No. 6826, dated the 5th February 1914, sanctioned the carrying out of the work as proposed by the Commissioner. The construction of the duplicate sewers will be started immediately after the rains of 1914-15.

SEWERAGE OF THE ELPHINSTONE RECLAMATION DISTRICT.

121. The Contractors (Messrs. Sayaji Naguji & Co.) are making very satisfactory progress with the laying of the pipe sewers in this district, and the works are expected to be completed within the contract period, *i.e.*, by the 3rd May 1914.

122. During the year under report the Ejectors and tubbings required for the district were received from the Manufacturers (Messrs. Hughes & Lancaster, Ltd.), and the same are now being erected departmentally by the Municipal Workshops.

123. Tenders for the laying of an Air Main in the district were invited and made returnable on the 7th January 1914. Two tenders were received out of which that of Messrs. Sayaji Naguji & Co., being the lower was accepted by the Standing Committee under their Resolution No. 6315, dated the 21st January 1914. The contract date for the completion of the work is 5th June 1914. The Contractors have made very good progress with the work.

124. The certified expenditure up to the end of the year amounted to Rs. 1,15,849-6-0.

STORM WATER DRAIN IN THE PETIT ORPHANAGE COMPOUND AND PAREL TANK ROAD.

125. Tenders for this work were invited and made returnable on the 6th October 1913. Three tenders were received, out of these that of Messrs. Teju Kaya and Co., being the lowest was accepted by the Standing Committee under their Resolution No. 4275, dated the 22nd October 1913. As this drain passed through private land belonging to the Trustees of the Nasarwanji Manekji Petit Charity Fund, negotiations were opened with them, and after some correspondence, they agreed to part with the land through which the drain passed on certain terms which were accepted by the Corporation under their Resolution No. 3425, dated the 15th September 1913. The Municipal Solicitors are drawing up the necessary deed, etc., but the work of the drain was in the meantime kindly allowed by the Trustees to be proceeded with, and the Contractors have made a very satisfactory progress with the work. The contract date for the completion of the work is 17th July 1914.

126. The certified expenditure up to the end of the year amounted to Rs. 2,10,032-6-0.

MEASURES FOR RELIEVING THE SUBCHARGING OF SEWERS, DREDGING AND SCREENING CHAMBERS AT LOVE GROVE.

127. The Chambers have been brought into use and are working satisfactorily.

128. The certified expenditure up to the end of the year amounted to Rs. 2,89,144-13-0.

CERTAIN ADDITIONAL WORKS AT LOVE GROVE.

129. In order to satisfactorily complete the New Pumping Plant in all respects, certain additional works were proposed. These were sanctioned by the Corporation under their Resolution No. 1788, dated the 23rd June 1913. Tenders for the works were invited and made returnable on the 8th September 1913. Only one tender was received from Messrs. Teju Kaya & Co., and it was accepted by the Standing Committee under their Resolution No. 3959, dated the 8th October 1913. The contract date for the completion of the works was 17th March 1914. The Contractors have made a satisfactory progress with the works, but all the works were not completed by them within the contract period as the execution of certain items of work, such as the compound wall, pavement under the coal-shed, etc., had to be deferred pending the decision of the Corporation on certain points, which has now been arrived at.

130. The certified expenditure up to the end of the year amounted to Rs. 39,713-8-3.

D

DRAINAGE—ORDINARY WORKS.

HOUSE DRAINAGE CONNECTIONS.

131. The street portions of the house drainage connection works in the City were carried out departmentally during the year, 252 connections being made at a total cost of Rs. 10,500-9-5.

132. These connections serve 343 premises, of which 219 are drained on the closed system and 124 on the open system.

133. In addition to these, 99 storm-water connections were made at a total cost of Rs. 3,357-7-3.

134. The street connections referred to in the preceding para. relate to (1) new buildings, (2) alterations to existing buildings and (3) premises in the newly sewered districts.

135. Several 6" branch drains were laid for bringing certain undrained premises within 100 feet of the Municipal sewers, as required by Section 231 of the Municipal Act. About 37 estimates and 450 plans were prepared for Notices under Sections 222, 230, 231, 232 A and 238, 257 and 260 of the Municipal Act.

136. Action was taken under Section 231 of the Municipal Amendment Act calling upon the owners of the properties comprised in the Malabar Hill sewered district to connect their premises with the new sewers. Of the six notices served all were complied with during the year.

137. The work of remodelling groups or blocks of buildings draining into common house gullies was continued departmentally, and the following three house gullies were remodelled during the year at a cost of Rs. 9,947-7-6 out of advances voted for the purpose, the expense being subsequently recovered from the house owners as provided under Section 232 A of the Municipal Act:—

Serial No.	Job No.	Situation of General House gullies.	Sanctioned amount.	Actual cost.	Remarks.
			Rs. a. p.	Rs. a. p.	
1	108	Common house gully between Huzeria Street, Temker Street, Grant Road and Huzeria Cross Lane	5,813 0 0	5,368 6 10	
2	115	Common house gully between Abdul Rehman Street, Sarang Street, Janjiker Street and Pinjari Street	4,622 0 0	3,032 9 0	
3	134	Common house gully between the 2nd and 3rd Marine Lines to the east of Wellington Street	1,245 0 0	1,246 7 8	
		Total ...	11,680 0 0	9,947 7 6	

138. In all 54 common house gullies have been remodelled upto the end of the year 1913-14 at a total cost of Rs. 97,666-3-10. Out of this sum, Rs. 96,740-7-7 have been recovered from the parties by this Department, and efforts are being made to recover the balance of Rs. 925-12-3.

PROVISION OF MANHOLES OVER STORM-WATER DRAINS.

139. From the grant of Rs. 3,000 provided for the purpose, the work of providing 26 manhole frames and covers was taken in hand at different places in the City, and is in progress.

140. The certified expenditure on the work upto the 31st March 1914 amounted to Rs. 2,592-11-1.

IMPROVED CONCRETE COVERS OVER WATER ENTRANCES.

141. These covers having been found effective, 912 such covers were provided in A Ward, 7 in C Ward, 5 in D Ward and 69 in E Ward and their cost was met from Section 5 (*a*) Repairs and Alterations to Miscellaneous Drains and Gutters.

MAINTENANCE AND UPKEEP OF OPEN MAIN DRAIN AND LOW-LEVEL CHANNELS.

142. A sum of Rs. 3,000 was provided for the work. It was carried out departmentally at a cost of Rs. 2,980-12-3.

143. A sum of Rs. 3,200 was provided for removing silt from and cleaning the above drains and work was carried out departmentally at a cost of Rs. 3,199-1-8.

144. A sum of Rs. 2,000 was provided for cleaning and maintaining drains attached to Municipal properties, and this work was carried out departmentally at a cost of Rs. 1,904-10-4.

145. A grant of Rs. 1,000 was provided for repairing the underground flushing chambers and cisterns, and this work was carried out departmentally at a cost of Rs. 999-13-5.

146. A sum of Rs. 5,000 was provided for the construction of relieving arches for strengthening the Old Main Drain in Falkland Road. The work was carried out departmentally at a cost of Rs. 4,488-12-11.

PUBLIC LATRINES AND URINALS.

147. The work of constructing a latrine and a pail depôt with two hoppers at Ghorupdeo Road was entrusted to Messrs. Haji Ahmed Haji Sulleman & Co. last year and the same was completed in May 1913 at a cost of Rs. 14,187-5-4.

148. The work of constructing a hopper on the vacant land to the north of Pilot Bunder Pier at Colaba was carried out departmentally. The work was completed last year except the fixing of a vent shaft. This was carried out during the year. The total cost of the whole work amounted to Rs. 4,774-11-11.

149. The work of puttting up 12 Automatic Flushing Tanks of Shanks Patent on the newly constructed 12-seated latrine on water carriage system at Banganga, Walkeshwar, has been carried out departmentally at a cost of Rs. 690-3-4.

150. The work of providing a latrine in the Chandniwady Cemetery at Mahim has been carried out departmentally at a total cost of Rs. 873-3-11.

151. The work of pulling down the 20-seated latrine of old pattern and substituting it with a new one of trough pattern in the Halalkhor Barracks at Shuklaji Street has been carried out departmentally at a cost of Rs. 4,443-5-7.

152. The work of converting the 8-seated basket system latrine into one on intermediate system at Old Nagpada Road was entrusted to Messrs. Haji Ahmed Haji Sulleman & Co., the Petty Works Contractors, and completed by them at a cost of Rs. 1,103-7-0.

153. The work of converting the existing 12-seated latrine into intermediate water carriage system and removing W. I. excreta tank with hopper and providing a masonry storage tank and hopper at Banganga, Walkeshvar, was entrusted to the Petty Works Contractors, Messrs. Haji Ahmed Haji Sulleman & Co., and it has been completed by them at a cost of Rs. 1,091-11-4.

REPLACEMENT OF STONEWARE PIPES IN COLABA SECTIONAL DISTRICT BY CAST-IRON ONES.

154. A further grant of Rs. 5,000 was provided for this work, in addition to the balance of Rs. 3,951 renewed from the last and previous years' grants. The work was taken in hand in April 1913 and is in progress.

155. The certified expenditure on the work up to the 31st March 1914 amounted to Rs. 45,278-3-6.

CLEANING STORM-WATER DRAINS.

156. A grant of Rs. 5,000 was provided for this work. It was carried out departmentally during the dry months of the year and the total expenditure incurred thereon amounted to Rs. 4,016-5-11.

157. Out of the following four works, three were carried out departmentally and one was entrusted to and completed by the Petty Works Contractors, Messrs. Haji Ahmed Haji Sulleman & Co., at the respective cost noted against each of them :—

Serial No.	Particulars.	Sanctioned amount.	Actual cost.	Savings.	How carried out.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	
1	Constructing a storm-water drain with 3 manholes over it at Wari Bunder cross passage and providing 4 half-sized water entrances with 9" C. I. S. W. connections at Wari Bunder Road	3,880 0 0	3,871 13 3	8 2 9	Departmentally.
2	Extending the culvert at the junction of Arthur Road and DeLisle Road	5,907 0 0	5,171 13 6	735 2 6	Do.
3	Renewing the storm-water arched drain with a manhole and outfall behind the Marine Lines Station at Kennedy Sea Face	4,081 0 0	4,047 7 6	33 8 6	Do.
4	Providing a storm-water drain and two full-sized and half-sized water entrances with water tables at Ripon Road Cross Lane, East	3,332 0 0	2,645 5 3	686 10 3	By the Petty Works Contractors.
	Total Rs...	17,200 0 0	15,736 8 0	1,463 8 0	

158. A contract for the following six works was let to Mr. Molubhai Mahomed and these were completed by him during the year at the respective cost noted against each of them :—

Serial No.	Particulars of Work.	Sanctioned amount.	Actual cost.	Savings.
		Rs. a. p.	Rs. a. p.	Rs. a. p.
1	Constructing a storm-water drain with half-sized water gullies and water tables at Trinity Street	4,965 0 0	4,827 13 10	137 2 2
2	Filling in road-side drain and providing a new masonry drain with 8 water entrances and water tables at Thakurdwar Road	5,703 0 0	5,697 4 6	5 11 6
3	Filling in open side drain and constructing a masonry covered drain with water gullies and water tables in Arab Lane	4,142 0 0	3,879 7 7	262 8 5
4	Providing storm-water drain with water gullies and water tables at Gilder Street	4,538 0 0	3,708 7 0	829 9 0
5	Constructing a storm-water drain along the passage on the north of water tank, near Gowalia Tank Road...	4,065 0 0	3,750 1 0	314 15 0
6	Providing a storm-water drain in Gowalia Tank Road from the existing storm-water drain up to the proposed passage	4,145 0 0	3,878 0 14	266 15 1
	Total Rs. ...	27,558 0 0	25,741 2 10	1,816 13 2

159. A sum of Rs. 15,999 was provided in the Budget for the work of providing a covered storm-water drain in portions of Charni Road and Khetwadi Back Road to Chunam Kiln Road. The work was entrusted to Contractor Mr. Molubhai Mahomed, but as he failed to carry it out during the contract period, it was completed departmentally at his cost.

160. The certified expenditure on the work amounted to Rs. 2,926-10-2 at the end of the year.

161. The work of constructing a wooden fence and brick masonry wall for the compound of the Chief Inspector's Office at Babula Tank Road has been taken in hand departmentally and is in progress.

162. The expenditure booked upto date is Rs. 2,626-9-10.

163. The work of laying 9" pipe sewer at Arthur Road from Jacob Circle to the north of milch-cattle stable proposed to be constructed by Messrs. R. J. and E. J. Dharma was entrusted to Contractors, Messrs. B. N. Bhathena & Co., and completed by them at a cost of Rs. 8,213-0-8.

164. A sum of Rs. 19,762 was provided in the Budget for 1912-13 for substituting ejectors of 700 gallons capacity in place of the existing ones of 250 gallons in Mazagon No. II District. The excavation for the ejectors was taken in hand and completed during the year; the excavation for the receiving sewer was also commenced at the close of the year and is in progress. The fixing of the tubbing and the ejector will be taken in hand after the rains. The certified expenditure upto the 31st March 1914 amounted to Rs. 5,772-10-9.

165. The work of remodelling drainage arrangements of the Arthur Crawford Markets is being carried out departmentally. The certified expenditure on the work amounted to Rs. 12,863-4-1 at the close of the year.

166. A sum of Rs. 4,500 was provided in the Budget for the work of constructing a storm-water drain in the Victoria Gardens. It was taken in hand departmentally and is in progress. The certified expenditure upto the 31st March 1914 was Rs. 2,296-8-11.

167. A sum of Rs. 5,188 was provided in the Budget for the work of laying a storm-water drain along Mahim Bazar Road. It was carried out departmentally. The certified expenditure on the work amounted to Rs. 4,296-8-10 at the close of the year.

MISCELLANEOUS.

168. Works to the extent of about Rs. 1,11,143, including repairs and alterations to, and cleaning of sewers and drains generally and making minor additions thereto, and the drainage arrangements of the various Health Camps, etc., as well as all new drainage works provided in the Budget for 1913-14, were carried out during the year. Out of these, works costing about Rs. 60,301 were carried out departmentally and the rest were executed through the agency of the Petty Works Contractors.

169. Daily reports in the prescribed form, showing the progress made in the works of cleaning main sewers and pipe sewers by means of scrapers and discs, were submitted by the Chief Inspector, Drainage.

E.

Regulations of Streets and Buildings.

170. Building Applications.—

Year.	Number of buildings for which plans were received and passed wholly or subject to certain conditions.
1909-1910	3,198
1910-1911	3,237
1911-1912	3,404
1912-1913	3,618
1913-1914	3,525

Notices and Summonses issued.

171. 3,314 notices were issued against house-owners under various sections of the Municipal Act. This number is less than the previous year's total by 1,204.

172. Prosecutions were instituted in the Magistrates' Courts in 944 cases under the Municipal Act against the house-owners, who failed to comply with the notices served upon them. In 497 of these cases the parties complied with the Municipal requirements before service of the summonses which were therefore withdrawn. In 131 cases the parties were warned and discharged. In 227 cases they were convicted and fined and 89 cases were postponed to dates after the end of the current year.

173. The amount of fines realized was Rs. 3,874-8-0.

174. The following statement shows the different sections of the Act under which the offenders were prosecuted and other details of the prosecutions during the year :—

Superintendents of Divisions.	No. of Sections of the Act.	No. of Prosecutions.	Cases withdrawn as the requirements were complied with.	Persons warned and discharged.	Persons convicted and fined.	Cases postponed to next year (1914-15).	Amount of Fines.
							Rs. a. p.
Superintendent, 1st Division.	231	6	4	...	1	1	5 0 0
	246A	2	1	...	1	...	10 0 0
	297(3)	4	2	...	...	2	.....
	308	4	3	...	1	...	15 0 0
	322	24	22	...	1	1	30 0 0
	337	18	4	...	12	2	191 8 0
	342	37	18	...	12	7	260 12 0
	349(B & C)	2	2	...	...	...	.....
	353	9	3	...	4	2	100 0 0
	353A	62	25	...	29	8	784 12 0
	354	22	13	...	7	2	219 0 0
Total ...	...	190	97	...	68	23	1,616 0 0

Superintendents of Divisions.	No. of Sections of the Act.	No. of Prosecutions.	Cases withdrawn as the requirements were complied with.	Persons warned and discharged.	Persons convicted and fined.	Cases postponed to next year (1914-15).	Amount of Fines. Rs. a. p.
Superintendent, 2nd Division...	231	2	1	...	1	...	15 0 0
	246A	2	1	...	1	...	25 0 0
	297(3)	14	6	...	6	2	80 0 0
	308	1	1	...	...	...	.....
	311	1	1	...	...	...	.....
	322	12	12	...	...	...	.....
	337	28	14	1	7	1	62 0 0
	342	78	59	1	14	4	222 8 0
	349(B)	4	2	...	...	2	.....
	353	4	3	...	...	1	.....
	353 A	64	32	4	24	4	288 0 0
	354	40	25	...	9	6	359 0 0
Total ...	...	245	157	6	62	20	1,051 8 0
Superintendent, 3rd Division..	231	6	3	3	...	...	.....
	246A	2	...	2	...	...	.....
	297(3)	1	1	...	...	...	.....
	308	4	3	1	...	...	.....
	322	10	3	6	...	1	.....
	337	23	10	12	...	...	.....
	342	21	4	10	4	3	25 0 0
	353	14	2	10	1	1	5 0 0
	353A	24	1	15	5	3	95 0 0
	354	51	4	31	10	6	113 0 0
	Bye-law No. 40	1	...	1	...	...	.....
Total ...	...	156	31	91	20	14	238 0 0
Superintendent, 4th Division...	246 A	1	...	1	...	...	.....
	308	5	5	...	...	...	.....
	322	2	1	...	1	...	25 0 0
	337	54	28	8	15	3	142 0 0
	342	46	22	5	14	5	191 8 0
	353	12	9	1	2	...	35 0 0
	353 A	84	49	5	20	9	362 0 0
	354	48	40	2	7	...	90 0 0
	Bye-law No. 40	2	1	...	1	...	5 0 0
	231	1	1	...	...	...	.....
	297(3)	...	...	...	...	...	.....
Total ...	...	255	156	22	69	17	850 0 0

Superintendents of Divisions.	No. of Sections of the Act.	No. of Prosecutions.	Cases withdrawn as the requirements were complied with.	Persons warned and discharged.	Persons convicted and fined.	Cases postponed to next year (1914-15.)	Amount of Fines.
							Rs. a. p.
Superintendent of Roads ...	305	74	50	10	1	13	30 ,0 0
	313 (1)	23	5	2	16	...	89 0 0
	322	1	1	...	...	...	.....
	...	98	56	12	17	13	119 0 0
Grand Total ..	...	944	497	181	227	89	3,874 8 0

Unsafe or Ruinous Buildings.

175. 457 notices were issued for the removal of unsafe, dangerous or ruinous buildings. 386 of these were complied with either partly or wholly, in 7 cases structures were removed by the Municipality, and 64 cases were pending at the close of the year. 23 buildings or parts of buildings fell during the year. In 15 cases no injury was done and in the remaining 8 cases 9 persons were killed and 14 were injured.

Removal of Inflammable and Insanitary Huts.

176. Action was taken under Sections 349 and 380 of the Municipal Act for the summary removal of 445 inflammable and insanitary huts. 350 of these were removed as required and 95 cases were pending at the close of the year.

177. The following statement shows the number of cases submitted to the Standing Committee for their sanction to the removal of unauthorized work during the year:—

WARD.	The number of cases in which applications were made to the Standing Committee for the removal of unauthorized work.	The number of cases in which such sanction was granted.	The number of cases in which the work was actually removed in accordance with the sanction of the Standing Committee.	The number of cases in which the unauthorized work was allowed to remain with modification.	Cases in which the parties took proceedings against the Municipality in a Court of Law.	REMARKS.
A ...	1	1	1	.....	.....	
D/1 ...	1	1	.....	.....	.....	
E/W ...	1	1	1	.....	.....	
F ...	2	2	1	.....	.....	

Street Improvements or Set-backs.

178. The amount available for street improvement for the year 1913-14 was as follows:—

Current Revenue.

	Rs.	a.	p.
Amount provided in the Budget	1,00,000	0	0
Renewed grant	747	11	9
Amount sanctioned under the Corporation's Resolution No. 271, dated the 10th April 1913...	1,613	0	0
Amount realized as concession money ...	16,231	3	0
Loan Works.			
Advance voted in 1913-14	4,00,000	0	0
Total Rs.	...5,18,592	3	9

179. Out of this amount the sum of Rs. 3,23,357-5-9 was actually paid during the year as under :—

	Rs.	a.	p.
From Revenue including the concession money received	1,01,663	1	9
From advance voted during 1913-14 ...	2,21,694	4	0
Total ...	3,23,357	5	9

Balance in the revenue grant renewed in the year 1914-15 Rs. 16,929-2-0

180. The following table shows the number of (1) set-back cases enforced, (2) set-backs added, (3) set-backs paid for and (4) the area of ground in square yards added to streets during the last five years :—

Year.	Set-backs enforced.	Set-backs added.	Set-backs paid for.	The area of ground added to streets (in square yards.)
1909-1910	112	137	120	7,106·65
1910-1911	89	92	111	7,732·25
1911-1912	109	114	109	8,838·33
1912-1913	124	148	85	25,829·47
1913-1914	107	92	65	9,947·53

181. The following statement shows the areas and values of ground added to streets in each ward during the year :—

Ward.	Areas in Square Yards.	Value.		
		Rs.	a.	p.
A	321·09	39,410	0	0
B	436·40	70,711	0	0
C	710·95	92,815	12	0
D	398·00	12,722	0	0
E	6,878·21	87,616	8	8
F	22·00	44	0	0
G	1,180·88	12,905	10	6
Total ...	9,947·53	3,16,224	15	2

182. The following statement shows the amount expended on set-backs from 1899-1900 to 1913-1914.

Year.	Paid from Capital.	Paid from Revenue.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
1899-1900	.....	60,984 4 9	60,984 4 9
1900-1901	.....	1,05,008 14 11	1,05,008 14 11
1901-1902	.....	1,27,430 1 8	1,27,430 1 8
1902-1903	.....	82,189 14 9	82,189 14 9
1903-1904	.....	1,12,128 7 5	1,12,128 7 5
1904-1905	.....	1,48,751 15 5	1,48,751 15 5
1905-1906	79,736 0 2	1,57,747 15 7	2,37,483 15 9
1906-1907	1,90,118 7 11	1,18,347 2 8	3,08,465 10 7
1907-1908	1,53,791 11 10	1,00,000 0 0	2,53,791 11 10
1908-1909	3,98,183 1 5	1,00,000 0 0	4,98,183 1 5
1909-1910	2,92,501 2 2	1,00,000 0 0	3,92,501 2 2
1910-1911	1,54,672 1 10	1,00,000 0 0	2,54,672 1 10
1911-1912	2,41,054 1 2	1,11,313 0 0	3,52,367 1 2
1912-1913	2,10,729 9 1	1,14,894 0 0	3,25,625 9 1
1913-1914	2,21,745 13 7	1,01,663 1 9	3,23,408 15 4
Total ...	19,42,532 1 2	16,40,458 14 11	35,82,991 0 1

183. The liability outstanding for land sanctioned to be acquired for set-backs amounted to Rs. 5,60,682-2-0 on the 31st March 1914.

184. The total area of set-backs added to roads was as detailed below:—

		Area in s. ft.
1.	Thomas Street	1,773
2.	Green Street	171
3.	Raghunath Dadaji Street	99
4.	Meadows Street	522
5.	Barber Lane...	306
6.	Musjid Bandar and Samuel Street junction... ...	477
7.	Nakhoda Street junction with Abdul Rehman Street	288
8.	Musjid Bandar Road, House No. $\frac{305}{315}$	243
9.	DeSouza Street, House No. 25	144
10.	Janjikar Street junction with old Bengalpura Street.	10 sq. yds.
11.	Grant Road	5,373
12.	Kika Street	81
13.	Fanaswadi	225
14.	Cavel Street	1,206
15.	Cavel Street near Flour Mill	99
16.	Mumbadevi Road	108
17.	Tadwadi, Girgaum	666

		Area in s. ft.
18.	Guzar Street...	405
19.	Girgaum Road near Sonapur	387
20.	Girgaum Road near 2nd Dhobi Talao	180
21.	New Hanuman Lane....	180
22.	Sindhi Lane	45
23.	Dadisett Agiari	45
24.	Girgam Road, Zaoba's Oart	504
25.	Govalia Tank Road belonging to Mr. Rustomji D. Dinshaw	1,400
26.	Forjett Street belonging to Sir Adamji Peerbhoy ...	3,360
27.	Chimnaji Ranooji Street owned by Mr. F. N. China.	164
28.	Mount Road owned by Mr. DeRozaria and DeLima.	3,000
29.	Ghorupdeo Road owned by Mr. K. H. Bhojraj ...	1,642
30.	Love Lane owned by Mr. B. S. Shroff	529
31.	Grant Road Cross Lane owned by Mr. Kasam Hiptulla and others	114
32.	Kamatipura 1st Street owned by Mr. Umar Ebrahim.	4
33.	Bhoiwada Road at its junction with Bhoiwada Cross Road	461
34.	Dadar Road	11,338
35.	Mahim Bazar Road	4,473
36.	New and Old Parbhadevi Road Junction	5,625
37.	New Parbhadevi Road	3,915
38.	Mori Road	10,440
39.	Lady Jamshedji Road	3,231

Revision of Set-back Lines in the City.

185. A Committee of the Corporation having desired to know the amount of liabilities incurred in respect of set-backs that were being enforced or were likely to be enforced in the future it was deemed advisable to revise all the set-back lines and especially those which were laid down without due regard to the nature, character, age or importance of the structures which were likely to be affected by an enforcement of the set-backs.

186. This work was taken in hand on the 16th June 1913. Important thoroughfares like Abdul Rehman Street, Masjid Bandar Road, Shaik Memon Street, Girgam Road, Kalbadevi Road, Bhuleshwar Road, Janjikar Street, Forjett Street, Mount Road, Chakla Street, Kika Street, have been resurveyed and the lines thereof revised.

187. Estimates of the expenditure already incurred, and likely to be incurred in the future by the enforcement of set-backs in Abdul Rehman Street, Masjid Bandar Road, Shaik Meman Street and Paltan Road have been prepared.

188. Set-back lines in such streets as Sutar Chal, Mirza Street, Shamset Street and Agiari Street have been cancelled as the improvements that were likely to result from an enforcement of the set-backs on these lines seemed to be incommensurate with the amount of expenditure which it would have been necessary to incur for the same.

189. A few years ago a list of the more important streets was prepared and since then the acquisition of set-backs has (*except* in special cases) been restricted to such streets.

190. As regards the liability of the Corporation in respect of the acquisition of set-backs both on the built and unbuilt portion of the town it may be noted that the actual annual expenditure is chiefly determined by the number of Building proposals received.

191. The acquisition of set-back is optional and a quarterly statement of liabilities incurred is prepared and the number of acquisitions is regulated accordingly.

F.

ROADS, FOOTPATHS, OVERBRIDGES, &c.

REPAIRS AND MAINTENANCE.

Road Repairs.

192. The following statement gives the particulars of expenditure incurred on Repairs and Maintenance of Roads:—

Particulars.	Quantity of Work done in square feet.	Expenditure.
		Rs. a. p.
1. Full metalling	4,526,598	2,65,093 0 0
2. Full patching	1,245,504	45,626 0 0
3. Patching, sanding and sandstoning (including value of the balance of materials on site and miscellaneous works)	.....	1,52,636 0 0
4. Scraping and brushing	.....	54,922 0 0
5. Repairs and maintenance of footpaths, bridges, culverts and road-side retaining walls	.....	15,029 0 0
6. Maintenance and fencing of road-side trees	.....	11,660 0 0
7. General repairs to tools, &c.	.....	28,000 0 0
Total ...	5,772,102	5,72,966 0 0

193. The rate for full-metalling works out to 10·33 pies per sq. ft. or Rs. 5-6-1 per 100 sq. ft. as against the standard estimated rate of Rs. 5-12-0, notwithstanding the increased rates for road materials purchased during the year.

194. The rates paid for materials during the years 1912-13 and 1913-14 were as noted below:—

Description of Material.	Rates paid in 1912-13.	Rates paid in 1913-14.
	Rs. a. p.	Rs. a. p.
Metal	7 14 0	10 6 0
Sand	8 8 0	9 12 0
Sandstone	7 9 0	9 12 0
Rubble	9 0 0	10 0 0

195. The lengths of roads disturbed by Municipal Departments and other agencies were as follows:—

	R. ft.
Water Department	52,302
Drainage Department...	42,688
Bombay Electric Supply & Tramways Co., Ld... ...	68,262
Callender's Cable and Construction Co. (for Tata Hydro-Electric Supply Co. and Telephone Co.)	6,503
Bomboy Gas Company	49,528
Total ... R. ft.	219,283

196. The total road surface disturbed by all the agencies extended to nearly 41½ miles out of the 167½ miles of roads in the City. This shows an increase of about 24 per cent. over the length disturbed in the previous year.

197. The cost of road repair works done by the Road Branch for the several Municipal Departments (Water, Drainage, Health, Market, &c.) for public bodies and for private individuals (including the work done at the expense of house-owners for the improvement of private streets) amounted to Rs. 3,67,208-12-2.

Road Materials.

198. The total quantity of road materials, purchased during the year and their cost, were as follows:—

Description of Materials.	Quantity in C. ft.	Cost. Rs.	a.	p.
Metal	1,459,062	1,51,377	10	11
Sand	296,249	28,884	4	5
Sandstone	261,835	25,528	14	7
Rubble stone	251,402	25,140	3	2
Red hill earth	6,793	849	2	0
Total ... Rs.		2,31,780	3	1

Steam Rollers.

199. Three new 12½-ton steam rollers with scarifiers were ordered from Messrs. Marshall Sons & Co. at a cost of Rs. 26,277, but delivery has been delayed on account of strikes.

Baxter's Patent Stone-breaker.

200. One Baxter's Patent combined stone-breaker and granulating rolls and one tar muccadum mixer were purchased from Messrs. Marshall Sons & Co., Ld., at a cost of Rs. 7,275.

Widening Roads.

201. The undermentioned roads were widened (by adding set-backs) to the extent noted below:—

	Area in sq. ft.
Lansdowne Road	4,885
Mayo Road with a footpath	3,393
Fort Street	600
Victoria Road	54,000
Mount Road	46,200
Bhoiwada Road Junction with Bhoiwada Cross Road	4,859
Dadar Road	79,000
Worli Road (with footpaths on either side)	145,680
Mori Road	17,200

202. Out of the total area of land in Bombay which amounts to 14,575½ acres, including the land reclaimed from the sea at Colaba, Fort North, Mazagon and Sewri, the area of land still undeveloped is approximately 3,000 acres.

203. The following is a statement showing existing open spaces belonging to Municipality in A to G Wards:—

Serial No.	Ward.	Names of Roads.	Area in sq. yds.	Remarks.
1	A	King Lane between houses Nos. 255-257 and 263-265.	78	Partly used as Dépôt ground.
2	A	Ghogha Street between houses Nos. 62-64 and 76.	550	
3	A	Bhatia Bag at the Junction of Hornby Road and Fort Street.	4,000	
4	A	Elphinstone Circle Garden	12,081	
5	A	A plot in front of Custom House Road..	2,569	Partly occupied by Police Chauki, partly by urinals and partly vacant.
6	A	Open space near Gun Carriage	3,065	Partly built over (Night-soil Depôt).
7	B	Mazagon and Wadi Bunder Road near Hancock Bridge.	838	Sometimes used as dépôt ground.
8	C	Northbrook Garden at Northbrook Street.	12,085	
9	D	Gowalia Tank	25,322	Recently filled in for use as recreation ground.
10	D	Malabar Hill Hanging Garden	52,675	
11	D	Chaupati Band Stand	1,772	
12	D	Mahalaxmi Flats at Arthur Road ..	31 Acres.	
13	D	Land 50 ft. on either side of the old main drain from Bellasis Road to Clerk Road.	39,727	
14	E	Gilder Tank near Grant Road Station ..	8,865	Partly used as Health Camp and partly used as depôt ground.
15	E	Nagpada recreation ground at Nagpada.	2,821	Used as recreation ground.
16	E	Matarpakhadi Tank	978	Used as play ground.
17	E	Arthur Road Health Camp at the Junction of Arthur Road and DeLisle Road.	32,827	Partly occupied by Health Camp, partly by begaries' huts and partly used as Depôt ground.
18	E	Foras drinking water fountain at the junction of Foras Road and Falkland Road.	1,422	A triangular piece of ground partly occupied by Drinking Fountain and partly used as depôt ground.
19	E	Bhandarwada Reservoir Gardens ..	9,600	
20	E	Tank Street Garden at Khara Tank ..	2,489	
21	E	Foras Road Garden at the Junction of Foras Road and Falkland Road.	3,005	
22	E	Dicks Garden at Parel Road opposite J. J. Hospital.	2,740	
23	E	Victoria Gardens at Parel Road ..	215,552	
24	E	Old Foras Tank at DeLisle Road near Sheep and Goat Markets.	11,235	Partly occupied by Zavli sheds.
25	G	Hornby Vellard (Storm-water reservoir).	136 Acres.	
26	G	Low ground to the North of Haines Road and Arthur Road Junction ..	150,000	Drying ground for Dhobis.
27	G	DeLisle Road at its junction with Parbhadevi Road in rear of "G" Ward Offices.	6,112	Vacant.
28	G	Worli Road, Middle Pakhadi	1,212	Partly occupied by Municipal latrines.
29	G	Dadar-Kumbharwada on the north of Crown Mills.	2,674	Cart with cocoanut trees.
30	G	Do. do. do. ..	3,509	Do. do.
31	G	Mori Road Gardens at the Junction Mori Road and Lady Jamshedji Road.	5,272	
32	G	Land under cultivation at Mori Road ..	30,313	
33	G	Sweeping ground for reclamation near Sion Station.	35,470	
34	G	Do. do. do. ..	29,551	
35	G	Open space at Cleveland Bunder on Cleveland Road near Channel No. 1.	4,666	
			715,075 sq. yds. or 147·74 Acres.	
			+ 31·00 „	Item No. 12.
			+ 136·00 „	Item No. 25.
		Total ..	314·74 Acres.	

204. The following is a statement showing open spaces that will be created by filling in tanks as sanctioned by the Corporation from time to time :—

Serial No.	Ward.	Names of Tanks.	Area in sq. yards.	Remarks.
1	A	Nakhoda Tank at Carnac Road ..	6,890	Not filled in.
2	C	Dhobi Talao Tank	2,759	Filled in.
3	C	Cowasji Patel Tank at Girgaum Back Road and C. P. Tank Road ..	868	Sanctioned to be filled in.
4	E	Mustan Tank at Bellasis Road & Huzaria Street Junction	4,597	Being filled in.
5	E	Nanabhoy Tank at Mazagon.	520	Do.
6	E	Nawab Tank at Mazagon	3,283	Partly filled in.
7	F	Naigaum Tank at Naigaum Cross Road.	32,562	Being filled in.
8	F	Footka Tank at Matunga Road ..	3,499	Not filled in and is very close to the King's Circle formed by the Improvement Trust.
9	F	Gowari Tank at Gowari Village ..	4,487	Not filled in.
10	F	Satgar Tank at Sion Road.	6,621	Do.
11	F	Buran Tank at Buran Tank Road ..	1,509	Do.
12	G	Sambhoo Mahadev Pakhadi Tank at Worli Road	2,788	Do.
13	G	Saoli Tank Purbhadevi Road	5,302	Do.
14	G	Jambli Tank Mahim Bazar Road ..	8,857	Being filled in.
15	G	Hassali Tank at Lady Jamshedji Road.	5,371	Not filled in.
			89,913 sq. yds. or 18·57 acres.	

205. The following statement shows the open spaces proposed to be provided by the City Improvement Trust in Schemes V and VI and also areas in Mahim, DeLisle Road and Love Lane suggested by this office for acquisition :—

Serial No.	Ward.	Names of Road.	Area in sq. yds.	Remarks.
		Open space within Mahim Scheme proposed by the Executive Engineer.		
1	G	Open space between sea shore and Lady Jamshedji Road surrounding the Jambli Tank	66 Acres ..	Includes Jambli Tank.
2	G	Dighee Tank at Upper Mahim Road ..	18,832	
3	G	Open space to the east of Purbhadevi Road and surrounding Sawli Tank ..	48,700 } = 12·91 acres ..	Includes Sawli Tank.
		Open spaces to be acquired at Love Lane and at DeLisle Road.		
4	E	Love Lane	4 acres ..	Proposed to be acquired.
5	G	DeLisle Road	6·42 acres ..	Do. do.
			89·33 acres.	
		Open space to be provided by the Improvement Trust in their Scheme Nos. V and VI.		
		Scheme No. V, Matunga Scheme as scored yellow on the plan	18 acres.	
		Scheme No. VI, Sion Scheme, as scored yellow on the plan	34 ,,	
			52 acres.	

206. The following roads were taken over and declared public:—

Serial No.	Name of the Road.	Taken over from
1	Two Cross Roads on Marine Lines Estate	City Improvemant Trust.
2	Naoroji Sett Road	Delcared public under Section 306.
3	Vithoba Lane	Do. do.
4	Telwadi off Vithalwadi...	Do. do.
5	3rd Phophalwadi	Do. do.
6	Khanderao Wadi	Do. do.
7	Powvala Street, North and South	Do. do.
8	Widening of Chunam Kiln Street (now forming part of Lamington Road).	City Improvement Trust.
9	Cumballa Hotel Lane from Gowalia Tank Road up to the South Gate of the Parsi Hospital to Warden Road.	Declared public under Section 306.
10	Roads No. 1 between Tardeo and Sleater Roads	Do do.
11	Do. No. 3 do. do.	Do. do.
12	Do. No. 7 do. do.	Do. do.
13	Do. No. 9 do. do.	Do. do.
14	Laburnum Road	City Improvement Trust.
15	Souter Street portion between Morland Road and Ripon Road...	Do. do.
16	Passage leading from Ghorupdeo Road to Dhakji Prabhu's Wadi.	Declared public under Section 306.
17	Garden Bridge and its approaches	G. I. P. Railway.
18	Reay Road portion between DeLima Street and Wari Bunder Road.	Newly constructed by the Municipality and opened for traffic on the 16th June 1913.
19	Three Private Streets, East of the Mahalakshmi Station ...	Declared public under Section 306.

Improvement of Private Streets under Section 305 of the Municipal Act.

207. Action under Section 305 of the Act was taken against house-owners for the improvement of several private streets which were in an insanitary condition. In some cases the owners carried out the various improvements through private agency and in others the necessary works were carried out by the Road Department at the expense of the owners.

The following streets were dealt with:—

(1) 2nd Phopalwadi Lane.
(2) Panchayet Wadi.
(3) Bhai Jivanji Lane.
(4) Assembly Lane.
(5) Dady Santuk Lane.
(6) Ripon Road Cross Lane, East.
(7) Parel Road Cross Lane, Chinchpookli.
(8) Parel Cross Road near Parel Railway Station.
(9) Passage to the north of Fergusson Road.

Tarring Roads.

208. The extended use of tar for the treatment of roads has proved very beneficial. The road surfaces have been greatly improved, their life increased, cleansing operations facilitated, dust reduced, and saving in road watering effected.

209. The quantity of tar used exceeded 100,000 gallons and the cost of tar painting and re-surfacing amounted to Rs. 33,073-14-2.

210. The following roads with a total area of 20,491 sq. yds. were treated with tar.

211. Queen's Road, Council Road, Cowasji Patel Street, Apollo Street, Warden Road, Elphinstone Bridge, Merewether Road, Churchgate Street, Adam Street, Wodehouse Road, Wodehouse Bridge, Dalal Street, Esplanade Road, Depôt Lane, Byculla Bridge, Victoria Cabstand, Chunam Kiln Road, Princess Street, Owen Dunn Road, Alexandra Road, Laburnum Road, Wachagandhi Road, Victoria Road, Barber Lane, Bastion Road, Cuffe Parade Road, Hornby Road, Mayo Road, Cruickshank Road, Lamington Road, Refuge near Byculla Bridge.

Tarring Cabstands.

212. The undermentioned cabstands with a total area of 1,207 sq. yds. were also treated with tar:—

1. Girgam Road.
2. Grant Road opposite Suklaji Street.
3. Babulnath Road.
4. Sleater Road.
5. Haines Road near Byculla Bridge.
6. Victoria Road at its Junction with Parel Road.

Tar Spraying Apparatus.

213. One 3-ton Aitken's Pneumatic Tar Sprayer Apparatus fitted to a Clayton's Steam Wagon was purchased from Messrs. Heatly Gresham & Co. at a cost of Rs. 12,225. This machine will, it is anticipated, effect a reduction in the quantity of tar used, give a better distribution and penetration of the surface and enable the work to be more expeditiously executed.

Petrol Motor Wagon.

214. Three 5-ton Petrol Motor wagons were purchased from Messrs. Marsland Price & Co. at a cost of Rs. 34,500.

Portable Engine.

215. One 10 N. H. P. Portable Engine was purchased from Messrs. Greaves Cotton & Co. at a cost of Rs. 3,405.

Viagraph.

216. One Viagraph machine was purchased from Messrs. Turner, Hoare & Co. at a cost of Rs. 580.

Footpaths.

217. The work of paving footpaths at Wodehouse Road and Balaram Street was carried out by Dayabhai Vasanji & Sons, Contractors.

218. The cost of paving the former foothpath amounted to Rs. 4,633 and that of the latter to Rs. 2,315.

219. The work of tar maccadamising the footpath at Warden Road was completed at a cost of Rs. 2,853.

220. The following new footpaths were formed from the grant for road repairs or maintenance of footpaths:—

	Name of the Road.	Area in sq. ft.
1.	Masjid Bunder Road at its Junction with Nagdevi Street... ...	594
2.	Frere Road near Carnac sidings	957
3.	Wadi Bunder Road (north)	3,653
4.	Kalbadevi Road junction of Kika Street	1,980
5.	Do. from Cavel	4,020
6.	Mumbadevi Road	210
7.	Girgaum Road, Thakurdwar	640
8.	Girgaum Road, Tadwadi...	660
9.	Bhandari Street	424
10.	Kumbharwada	1,704
11.	Northbrook Street	656
12.	Cawasji Patel Tank	954
13.	Sandhurst Road near Temple	1,888
14.	Cathedral Street	1,246
15.	Charni Road from Girgaum Back Road to Sandhurst Road ...	1,200
16.	Girgaum Back Road at its junction with Charni Road	1,600
17.	Girgaum junction of Charni Road portion	240
18.	Girgaum junction of new Bhatwadi...	1,600
19.	Girgaum junction of Lamington Road to Sandhurst Road Junction.	2,720
20.	Charni Road junction, Grant Road	1,600
21.	Sleater Road	5,800
22.	Harvey Road junction, Gamdevi	1,890
23.	Harvey Road junction, Hughes Road	2,980
24.	Harvey Road junction, Chaupati	3,000
25.	French Road	1,440
26.	Gowalia Tank Road, opposite Petit Statue	3,150
27.	Gowalia Tank Road junction, Hughes Road	312
28.	Chinchpokli Road	3,000
29.	Foras Road	820
30.	Footpaths round the Jacob Circle, including turfing	9,000
31.	Dadar Road from Dadar Goods Yard to Public Works Department Bungalow	12,000

221. The following foothpaths were formed while adding setbacks:—

Description of the setback.	Area in sq. ft.
Wodehouse Road at its junction with Panday Road	31
Babula Tank Road near Jail Road, north	1,240
Abdul Rahiman Street	150
Grant Road	5,446
Girgaum Road	2,030
Ridge Road junction, Harkness Road	231
Forjett Street junction, Gowalia Tank Road	4,680
Grant Road Cross Lane near Grant Road Station	3,150
Mount Road, near Rose Cottage Lane	1,300
Ghorupdeo Road...	976
Dadar Road from Plot No. A. to E.	18,018
Mahim Bazar Road	2,592
Lady Jamshedji Road	2,632
Old Purbhadevi Road	1,500
New Purbhadevi Road	2,022
Mori Road	4,825

Improving awkward and dangerous corners of roads.

222. The undernoted dangerous and awkward corners have been improved by either forming footpaths or by rounding off the corners:—

(1) Junction of Girgaum and Lamington Road near Dani Building.
(2) Junction of Sandhurst Road and Lamington Road.
(3) Junction of Charni Road and Sandhurst Road.
(4) Junction of Charni Road and Girgaum Back Road.
(5) Junction of Hughes Road and Gamdevi Road.
(6) Junction of French Road and Hughes Road.

Tree Planting.

223. New trees were planted on Marzban Road, Ormiston Road, Clive Road, Masjid Bridge Road, Frere Road, New Frere Road, Argyle Road, Chinch Bunder Road, New Chinch Bunder Road to Mazagon Road, Wari Bunder Road, Elphinstone Bridge Road south, Victoria Road, Mount Road, Morland Road, Reay Road, Connaught Road, Government Gate Road, Sakerbai Hospital passage, Parel Chal Road, Dadar Road, Worli Channel Bund, &c. For this purpose 311 iron tree-guards 2'-6" in diameter were purchased. The certified expenditure on the work amounted to Rs. 7,796 and the number of trees planted was 1,235.

Tramways.

224. The tram tracks along Hornby Road from tram pole No. A136 to the Fort Street junction, including the new siding near tram pole No. D23 along the West and South sides of Bhatia Bag were extended by a length of 1,380 feet.

New Tramway Sidings.

225. A new siding, 366 feet in length, was laid in Cruickshank Road, behind Tata's statue to the west of the Municipal Offices.

Tramways renewed for electric traction.

226. The tram rails at Hornby Road, opposite Bori Bunder, were raised about 10 inches to obtain a sufficient camber for the carriage-way.

227. The carriage-way of Fort Street from Hornby Road junction upto the corner of the General Post Office was similarly raised and improved.

Government Triangulation Survey of Bombay.

228. The topographical survey of the Island was continued by the Government Surveyors during the year.

229. Every assistance was rendered to the Survey Party by this Office in connection with the survey.

Road Watering.

230. The Budget grant for the work was Rs. 72,000. The total expenditure has amounted to Rs. 74,256-14-11.

231. With a view to reduce the amount of road watering and to admit of higher pressure being maintained in the water mains, it was resolved to purchase 475 tons of Akonia for treating the road surface during the hot season.

232. A grant of Rs. 40,000 was sanctioned for this purpose under the Corporation's Resolution No. 4127, dated the 16th October 1913, and a further grant of Rs. 1,370 was also sanctioned under Corporation's Resolution No. 8424, dated the 9th March 1914, to purchase Akonia from Mr. K. R. Vacha at Rs. 90 per ton.

233. 110 roads in A Ward, 6 in B Ward, 18 in C Ward and 14 in D Ward were treated with Akonia.

234. The area of the roads thus treated was about 1,011,100 sq. yds. and the total expenditure on the work amounted to Rs. 41,368-7-9.

New Hydrants fixed.

235. The total number of hydrants fixed during the year for road watering was 436. Out of these only 112 were of the standpost pattern, the others being underground.

G.

PUBLIC LIGHTING.

Gas Lighting.

236. The total number of Gas lamps in the City at the end of the year was 5,792 as detailed in the following statement and the total cost of gas lighting was Rs. 3,71,253-1-8:—

WARDS.	Upright "O" Burner Lamps.					Inverted Lamps.			Inverted Mantle Bombay Lamps.				High Pressure Lamps.						Total.	Remarks.
	Single Light.	Double Lights.	Triple Lights.	Quadruple Lights.	Quintuple Lights.	Single Light.	Double Lights.	Triple Lights.	Single Light.	Double Lights.	Triple Lights.	Quadruple Lights.	High pressure lamps at Floral Fountain.	1,800 Candle power lamps at Chaumpy.	9,000 Candle power with 3 burners of 1,000 Candle power each.	100 Candle power lamps at Sandhurst Road.	High pressure lamps with 6 burners of 900 Candle power each at Ringgold column.	800 Candle power lamp at Sandhurst Bridge.		
A ..	866	16	3	8	5	6	147	2	183	..	3	1	8	..	..	..	1	..	1,480	9 gas lamps on Chinch Bunder Road have been handed over to the City Improvement Trust.
B ..	700	..	1	4	1	..	2	14	..	9	..	..	..	..	..	..	..	..	718	
C ..	685	..	1	..	..	5	35	13	..	..	..	..	..	..	..	..	..	..	802	
D ..	907	..	7	..	1	..	40	12	..	1	..	..	..	14	1	21	..	2	1,091	
E ..	1,004	4	2	..	..	..	..	1	22	16	..	..	..	..	..	..	..	..	1,075	
F ..	229	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	236	
G ..	330	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	330	
Total ..	4,715	40	45	48	36	11	448	126	205	52	9	4	8	14	3	21	6	2	5,792	

NOTE.—83 gas lamps equivalent to 43 burners have been kept out since 20th June 1913 at the request of the Port Trustees as they have introduced Electric lighting in the Victoria and Prince's Docks. The maintenance charges of these (43) lamps at Rs. 55 per annum are to be paid to the Port Trustees by the Municipality.

Kerosine Oil Lighting.

237. As in the preceding years the kerosine oil lighting was carried out departmentally. The oil used was 125° Elephant Brand. The number of kerosine oil lamps in use was 1,550, as detailed below:—

Ward.	No. of lamps.	Remarks.
B	182	All these lamps have Simla pattern burners.
C	54	
D	97	
E	255	
F	559	
G	403	
Total ...	1,550	
No. of lamps in 1912-13 ...	1,778	

238. The total cost of kerosine oil lighting during the year was Rs. 30,470-11-1. Deducting from this Rs. 888-0-8, being the amount recovered on account of departmental bills for lighting health camps, &c., and (2) from private parties for breakage of lanterns, parts, &c., the net cost of kerosine oil lighting during the year amounted to Rs. 29,582-10-5, which gives a rate of Rs. 19-1-4 per lamp per annum.

H.

MUNICIPAL WORKSHOPS.

239. The following are the particulars incurred during the year for departmental and private works, executed at the Municipal Workshops, for shop and supervision charges, tools and repairs to machinery, buildings, &c. :—

	Rs. a. p.	Rs. a. p.	Rs. a. p.
For Departmental Works, &c :—			
Labour	73,720 5 8		
Stores	83,564 6 10		
Piece-work, cart-hire, &c.	792 3 9		
		1,58,077 0 3	
For Workshops Stores:—			
Labour	1,134 13 6		
Stores	3,919 10 0		
		5,054 7 6	
Total			1,63,131 7 9
For New Municipal Workshops :—			
Labour		1,721 1 3	
Stores		3,075 12 5	
			4,796 13 8
For Shop Charges :—			
Labour	3,184 3 1		
Stores	10,970 9 0		
Piece-work, contingencies, &c.	85 0 0		
		14,239 12 1	
For supervision charges, establishment, rent, &c.			
Establishment	12,567 14 10		
Repairs to buildings	16 11 5		
Rent paid to Government	13,142 1 0		
Contingencies	1,072 2 3		
		26,798 13 6	
Total Expenditure for working the Shops			41,038 9 7
Total Expenditure during 1913-14 was			2,08,966 15 6

	Rs. a. p.
The total expenditure during 1913-14 on account of Departmental Works, &c. (Rs. 1,58,077-0-3), for Workshops Stores (Rs. 5,054-7-6) and for fixing machinery in the first section of the New Municipal Workshops (Rs. 4,796-13-8), aggregated with the amount charged for supervision, tools, shops, and repair job charges, &c. (Rs. 40,627-12-7)	2,08,556 2 0
Add—Amount of incomplete jobs at the beginning of the year 1913-14	2,103 6
Rs.	2,10,659 8 3
Deduct—Amount of incomplete jobs at the end of the year 1913-14	1,604 14 3
Thus—The total amount of bills preferred by the Workshops in the year 1913-14 was Rs.	2,09,054 10 0

Percentage for supervision, shop, repair charges, &c.

	Rs. a. p.	Rs. a. p.
The actual charges for the general working of the Shops (Rs. 14,239-12-1) and for rent and supervision (Rs. 26,798-13-6) amounted to		41,038 9 7
The amount recovered on account of the abovementioned expenses by charging the fixed percentage of 25 per cent. on the cost of labour employed and materials used for works executed at the shops was	39,519 4 3	
The difference between the actual cost of working the Municipal pumping engine, *plus* 25 per cent. for shops, supervision, repairs, &c., and the fixed charges at which it was let on hire to private parties and departmental works was	1,108 8 4	
The amount realized by sale of saw-dust, unserviceable articles, &c., was	3,317 14 6	
The balance in favour of the Workshops was therefore		2,907 1 6
Total ... Rs.	43,945 11 1	43,945 11 1

240. The following are the principal items of new works completed during the year :—

Description of Works.	Amount.
	Rs. a. p.
Making 8 curtains for the corridor of the Executive Engineer's Office	666 10 0
Covering the lower portion of the north and west wall of the Woodworking shop at Foras Road with corrugated iron sheets	1,263 6 11
Making 6 cycle stands for 6 cycles each, and 2 covered stands for 6 cycles for the Victoria Gardens	564 12 11
Making furniture and fittings for the Municipal Laboratory	977 4 0
Making a temporary enclosure for otters in the Victoria Gardens	227 15 2
Making 12 drain carts for the Drainage Department	1,947 3 2
Making 250 fish benches for the Market Department	683 13 4
Making 86 iron caution signals for the Road Department	621 7 3
Making 25 benches for the Chaupati Bandstand	701 1 8
Erecting refuse motor wagons Nos. 11 and 12	401 10 1
Erecting stonebreaker machine and portable engine for the Road Department	824 9 2
Renewing 5 drain carts for the Drainage Department	589 14 8

241. Works completed which were commenced in the previous year :—

Description of Works.	Amount.
	Rs. a. p.
Making and fixing iron work for screening and dredging chambers at the new L. G. P. Station	3,331 15 10
Converting 13 N. P. hydrants into 26 H. P. hydrants	908 14 7
Do. 12 " 24 "	598 9 9
Do. 20 " 40 "	1,101 6 9
Do. 9 " 18 "	586 9 0
Fixing railings round the compound wall of Sir Jacob Sassoon's property at Victoria Road	627 7 2
Making 1,196 badges for halalkhors and bigaris for E Ward, Health Department	670 15 4
Making 20 hand-barrows with cane baskets for Health Department	800 0 0
Reconstructing 37 dustbin carts to new pattern for the Health Department	5,829 11 1
Making 5 curtains for the corridor of the Municipal Commissioner's Office	513 9 7
Temporarily fixing electric generating plant at the Love-grove Pumping Station and fixing electric light fittings in the new screening and dredging house	4,003 2 6
Providing covers over the tanks in the Municipal Office Building	1,905 3 0
Fixing a hot-water boiler with water tanks and stands at the Arthur Crawford Markets	621 2 6

242. The following are the principal items of the new works which were in progress but were not completed before the close of the year :—

Description of Works.	Estimated cost.	Expenditure up to 28th February 1914.
	Rs. a. p.	Rs. a. p.
Making 17 wooden hand-carts for the Road Department	1,880 0 0	1,424 8 3
Providing covers over water tanks in charge of the Municipality	1,372 [illegible]	632 9 3
Providing and fixting 2 water tanks with stands on Parel Tank Road	654 12 0	355 4 6
Making sundry iron work and connections for the New L. G. Pumping Station ...	5,400 0 0	3,722 2 10
Providing and fixing teakwood plank floor to the beam floor of the new engine house at Love-grove	2,076 4 0	1,119 4 10
Making a 6 ft. penstock for the new low-level outfall sewer at Love-grove	5,000 0 0	1,222 10 3
Erecting 250 gallons ejectors and tubbing at No. 5 Ejector Station Colaba	1,750 0 0	954 15 7
Reconstructing 4 meat vans for the Market Department	2,000 0 0	754 7 5
Removing an erecting the stone elephant in the Victoria Gardens	588 4 0	386 12 5
Converting 19 N. P. hydrants into 38 H. P. Hydrants	1,045 0 8	796 7 2
Making and fixing beam scales for the Stores Department	770 12 0	154 1 3
Making and erecting a drill tower and hose hoist at the Haines Road Fire Brigade Station ...	1,998 0 3	567 1 10

243. In addition to these works, the Workshops have continued to keep in repairs the rolling stock of the Health, Road and Drainage Departments, the machinery of the Love-grove Pumping and Compressor Stations, the Colaba Compressor Station, the Ejector Stations in the Parel, Chinchpokli, Agripada, Malabar Hill, Mazagon and Colaba Districts, Steam Rollers, Fire Engines, Motor Refuse Wagons, and Inspection Motor Cars.

244. On account of the work carried out during the year being in excess of anticipations, the grant for Stores had to be supplemented during the year by an advance of Rs. 20,000 from Surplus Cash Balance, sanctioned under the Corporation's Resolution No. 8748, dated the 19th March 1914.

245. In connection with the erection of new Municipal Workshops at Foras Road, Messrs. Fazulbhai Deoraj & Co.'s final bill for masonry work in the first section of the work was passed in June 1913. The total expenditure under this contract was Rs. 52,550-8-11 against the estimate of Rs. 55,893. The expenditure passed against the sanctioned estimate of Rs. 22,032 for the provision of boilers shafting and machinery, &c., was Rs. 21,648-8-0 upto the close of the year, and against the estimate of Rs. 16,743-8-0 for Departmental work in providing and fixing machinery, &c., the expenditure passed was Rs. 4,130-3-5.

246. It was found during the monsoon that sufficient weather protection had not been given to the new woodworking shop, and corrugated iron sheets were fixed during the year down to ground-level on one side and one end of the shop by the Workshops at a cost of Rs. 1,263-6-11. This expenditure was met from savings in the grant of Rs. 1,38,247-8-0 sanctioned for the first section of the work.

247. Plans and estimates for the second section of the new Workshops comprising fitting, erecting and machine shops, boiler and smiths' shops, general and timekeeper's offices and foreman's quarters were submitted early in the year at an estimated cost of (*a*) masonry work, Rs. 1,14,482, and (*b*) steelwork Rs. 74,742. Tenders were subsequently invited and under their Resolution No. 6314 of the 21st January 1914, the Standing Committee accepted the lowest tenders of (*a*) Messrs. Virji Teju & Co. for masonry work at an aggregate cost of Rs. 1,26,308-0-3, *plus* Rs. 10,407-8-0 for supervision and contingencies, and (*b*) Messrs. Richardson and Cruddas for steel work at an aggregate cost of Rs. 72,573-11-0, *plus* Rs. 6,794-11-5 for supervision and contingencies. The considerable excess of Rs. 22,233-8-3 over the estimate for masonry work was due to the great advance in the price of building materials since the estimates were prepared.

248. Orders to commence the work were given to Messrs. Virji Teju & Co. on the 1st February 1914 and to Messrs. Richardson and Cruddas on the 4th of the same month, and some progress was made with the foundations before the close of the year.

Inspection Motor Cars.

249. The mileage run by Motor Cars Nos. 1674, 1675, 1676 and 2126 for the respective use of the Health Officer, the Deputy Executive Engineer, Drainage, the Executive Engineer and the Deputy Executive Engineer, Mechanical Branch, was as follows:—

No.	1674	8431	miles.
„	1675	7,820	„
„	1676	6,640	„
„	2126	6,070	„
	Total ...	28,961	miles.

250. The above total shows an increase of 4,051 miles on the total for the previous year.

251. The cost of maintenance, inclusive of establishment upto the close of the year, was Rs. 7,899-11-0, which is equal to an average running cost of 4·4 annas per mile as compared with 5·32 annas per mile in the year 1912-13. As the expenditure included the repainting and overhauling of car No. 1675 at a cost of Rs. 365, the appreciable reduction in the average running cost was satisfactory.

252. In consequence of the increased mileage of the cars and an under-estimate of expenditure, the Budget grant of Rs. 4,000 for maintenance had to be supplemented by a transfer of Rs. 2,250 (*vide* the Corporation's Resolution No. 8423 of the 9th March 1913).

The Love Grove Pumping Stations.

253. The engines and pumps worked fairly satisfactorily during the year, but they are beginning to feel the effects of 20 years of hard and continuous work and breakages due to wear and tear are becoming somewhat frequent.

254. There was one total stoppage of the engines during the year. This occurred at 6 o'clock on the morning of the 18th March 1913, when No. 1 engine was the only one at work. Owing to the dropping of two of the pump valves, it was necessary to shut the engine down before another could be started, and the assistance of a fire engine had to be obtained to recharge the pump boxes with water before a re-start could be made. The work was completed and the engine re-started by 8-15 a. m., and no serious consequence resulted from the stoppage.

255. The efficiency of the pumps as tested by frequent observations taken by the Drainage staff showed an average of 88·38 per cent. as against an average of 83·5 per cent. in the previous year. This is a satisfactory improvement.

256. The combined total number of revolutions of all engines during the year was 28,002,147 against 28,243,135 in the preceding year.

257. The following table shows the total quantity of coal of different descriptions consumed during the year with their average rates per ton :—

Description of Coal.	Tons.	Average rate.
		Rs. a. p.
Powell's Duffryn Cardiff	500	26 2 3
South African	1,886½	21 10 4
Desharghur	725	19 14 2
Jharria Rubble	1,650	17 10 4
Ballihari, Bengal	650	18 14 3
Seebpore Bengal	450	20 5 11

258. The average rate per ton for all of these descriptions of coal was Rs. 20-4-5·9 as against an average of Rs. 19-4-4·6 in the previous year, and the average daily consumption was 16 tons, 1 cwt., 0 qr., 20 lbs. against 15 tons, 3 cwts., 1 qr., 5·8 lbs. in 1912-13. The increased consumption was principally due to the working of the new electric generating station for the supply of power to the new screening and dredging plant.

259. In consequence of the high rates ruling for coal and the extra consumption, the grant for fuel had to be supplemented by additional grants of Rs. 19,500 and Rs. 13,500 from Surplus Cash Balance, which were sanctioned under the Corporation's Resolutions No. 4721 of the 13th November 1913, and No. 6183 of the 15th January 1914 respectively.

260. The general repairs to No. 2 engine, which were in hand at the close of the previous year, and included the renewal of one low pressure steam cylinder, the re-boring of the remaining cylinders, fitting new piston rods, pistons and rings to all cylinders, re-boring air pumps and fitting new buckets, and renewing sewage pump rams, bushes and rods, were completed and the engine re-started on the 24th June 1913. Minor repairs to No. 4 engine, which included the renewal of a high pressure piston and repairs to the condenser, were then taken in hand and the engine was re-started on the 15th December 1913. No. 3 engine was next laid off for general repairs, which were in progress at the close of the year.

261. 820 lbs. of " Brad " valve faces were purchased for the sewage pump valves from Messrs. W. H. Brady & Co. in December 1913 at a rate of Rs. 2-15-0 per lb.

262. 50 cast steel pump valves and 50 cast steel hinge blocks for the same were purchased from Messrs. John Fleming & Co. in November 1913 at a cost of Rs. 1,600.

263. Two 4 B. H. P. electric motors with worm reduction gear, a spare armature for the same and two motor starters were purchased in July 1913 from Messrs. Crompton & Co. at a total cost of Rs. 1,802. These motors were obtained to replace the small steam engines previously used for driving the economiser, scrapers and the mechanics shop respectively, and they take their power supply from the new generating station on the premises.

264. The cost of all the above supplies was met from the grant for contingencies and stores.

265. The temporary erection of the new electric generating station for driving the screening and dredging plant and auxiliary motors, &c., was taken in hand by the Municipal Workshops in March 1913 and was completed by the end of June of the same year. The station started regular work from the 1st July and worked satisfactorily up to the close of the year. The total B. T. units generated during the period was 32,132.

266. In addition to the expenditure noted in last year's report, the following new expenditure was incurred on the foregoing work during the year:—

		Rs.	a.	p.
(1)	Messrs. Teju Kaya & Co. for erection of temporary sheds for housing the plant	1,595	9	1
(2)	Messrs. Teju Kaya & Co. for foundations for engines and boilers ...	716	12	3
(3)	Messrs. Marshall, Sons & Co. for a donkey pump	336	0	0
(4)	Workshop charges for erection of plant including provision of an electric light installation in the screening and dredging house	4,003	2	6

267. On the completion of the generating station the sewage from the main sewer was turned into the new detritus and screening chambers, and the dredging and screening machinery was started from the 1st July 1913. In consideration of the large accumulations of silt from the main sewer, which were dealt with towards the close of the year as the result of the passage of a scraper through the sewer from Clerk Road, the machinery may be stated to have worked fairly satisfactorily, but the maintenance charges will be heavy and there were some small defects disclosed, *viz.* (*a*) that the chain pump supplied for emptying the fine screen chambers for inspection was found unsuitable for the work, owing to chips of wood breaking the chain and steps were being taken at the close of the year to convert the pump into a bucket pump, (*b*) that the dredger bucket would not cut their way down into an accumulation of silt in the chambers. This defect was found to be due in a large measure to an excess of dead-end on the bucket ladders and an improvement has been made by cutting off the ends of the ladders, and (*c*) that the light railway track and tip wagons provided for the removal of the detritus and screenings was deficient in quantity, and arrangements were in hand at the close of the year for the purchase of four more sets of points and three tip wagons from Messrs. Shaw Wallace & Co., at a cost of Rs. 660.

268. The first heavy rush of silt into the detritus chambers commenced on the 29th January 1914, and it is estimated that between that date and the 2nd February over 250 tons of silt was removed. It continued to come forward in large quantities after the latter date, and in consequence of the chambers having become completely filled and the inability of the dredgers to cut their way through the accumulation, the services of a fire engine had to be requisitioned to wash the silt away from the bottom of the ladders with a strong jet of water. This was found effective, but the defect has since been remedied in the manner mentioned in the preceding paragraph.

269. It is found that from the commencement of working up to the close of the year over 3,000 tons of silt have been removed by the new plant. This amount seems almost incredible, but the extent of the filling of the low-lying ground adjacent to the detritus chambers is visible evidence of the quantity, and it should be noted that this is in addition to the large quantity of silt removed from the various catchpits in the City by the Drainage Department. That this quantity of silt and perhaps more should have been pumped annually through the existing Worthington pumps for so many years without their total destruction is a matter which may be looked back upon by this Department with some satisfaction.

270. The removal of the silt from the sewage and the more effective screening than was hitherto the case, prior to the pumping of the sewage, has considerably improved the working of the pumps and is largely responsible for the improved efficiency already noted.

271. After the new dredging and screening plant commenced work, the old screens were dismantled and the work of converting the building in which they were previously accommodated into a permanent electric generating station was in progress under the supervision of the Drainage Department at the close of the year.

272. In anticipation of the permanent installation of the generating plant in the above building the Standing Committee under their Resolution No. 6721 of the 4th February 1914 accepted the tender of Messrs. Macbeth Bros. & Co. for the supply of three sets of Ledward & Beckett's Ejector Condensers to work with the generating plant at a cost of Rs. 6,438.

273. The erection of the new pumping machinery and boilers in No. 2 Station by Lilleshal & Co. under the supervision of their Resident Engineer, Mr. C. F. Simmonds which was commenced at the close of the preceding year, was almost completed at the close of

the year under report and the first engine was run round by steam on the 1st April 1914. This marks the near approach of the final stage in an important improvement, which is very much behind time as shown by the fact that the contract with the Company dates from the 6th January 1909 and the contract time for the completion of the work was two years.

274. It was noted in the last Annual Report, in connection with the scheme for the new low-level outfall at Love Grove, that soundings along the amended direct line, as recommended by Mr. G. Midgley Taylor, were being taken by the Port Trust Staff at the close of the year. These soundings were completed early in the year under report and amended plans and quantities, in accordance therewith, were then taken in hand and were nearly completed at the end of the year. Preliminary to the carrying out of the sea section of the work, and to allow of the discharging capacity of both new and old pumping stations being utilized during the monsoon, the Standing Committee, under their Resolution No. 6758 of the 4th February 1914, sanctioned the execution of a contract with Messrs. Teju Kaya & Co. for the construction of 800 feet of sewer in the land section of the work and 300 ft. of rock cutting to form an extension channel to low water level at an estimated cost of Rs. 2,35,958-12-9, subject to the Corporation's approval of the scheme. The Corporation accorded their approval on the 5th idem and the work was commenced the following day and good progress was being made at the close of the year.

275. The certified expenditure upto the end of the year amounted to Rs. 75,333.

276. In view of the increased water-supply to the City, consequent upon the duplication of the Tansa Main, Mr. G. Midgley Taylor was consulted as to the adequacy of the existing drainage system to deal with the anticipated increase. His long and detailed report on the subject, together with the observations of the Municipal Officers in the matter, was placed before the Corporation under Commissioner's No. 35652 of the 22nd March 1913, and the subject was under discussion and inquiry up to the close of the year. As concerning the pumping plant, Mr. Taylor recommends an immediate increase of 45,000,000 gallons per 24 hours in the capacity of the plant to deal with the monsoon flow with an additional unit of 15,000,000 gallons' capacity to deal with the fair weather flow as soon as the effect of the increased water-supply has been ascertained.

Colaba Compressor Station.

277. The machinery of the Compressor Station and the Ejector Stations served from it worked satisfactorily during the year.

278. The total quantity of sewage lifted during the year amounted approximately to 440½ million gallons against 395½ million gallons in 1912-13. The total number of revolutions run by the compressor engines was 44,172,452 against 41,969,627 in the previous year.

279. The increased duty, which was partly due to the larger ejectors working in No. 4 Station and partly to the heavier rainfall during the monsoon, necessitated a transfer of Rs. 2,000 from savings in the grant for Establishment at the Love Grove Pumping Station to supplement the grant for electric power supply, *vide* the Standing Committee's Resolution No. 6950 of the 15th February 1914.

280. There were 14 interruptions in the electric supply to the station during the year, being 8 less than in 1912-13 and 13 less than in 1911-12. Of these, 12 were stoppages of less than two hours' duration with an average of 39 minutes each. Of the remainder, one occurred on the 16th July 1913 and lasted for 2 hours and 20 minutes and the other on the 7th September 1913 lasting for 3 hours. None of these stoppages necessitated the use of the reserve steam plant.

281. The total number of units of electric energy consumed during the year was 313,660 against 299,540 units in 1912-13.

282. The new pair of 250 gallon ejectors to replace the old ejectors of 100 gallons capacity each in No. 5 Station were received from Messrs. Hughes and Lancaster in May 1913 and their erection by the Municipal Workshops was taken in hand in January 1914, and was in progress at the close of the year.

The Love Grove Compressor Station.

283. The machinery of the Compressor Station and the several Ejector Stations in Parel, Chinchpokli, Agripada, Malabar Hill and Mazagon Districts worked satisfactorily during the year with the one exception of a serious stoppage of the Ejector Station at Chinchpokli.

284. This stoppage occurred on the morning of the 25th September 1913, and it was due to the inlet sluice valve, which was partly obstructed by silt, having been incompletely closed during the inspection and repair of the ejector. The pressure of sewage subsequently burst through the silt obstruction and flooded the tubbing and it ultimately required the assistance of two fire engines to empty the tubbing, sufficiently to allow of the valve being properly closed down. The work was completed and the ejector re-started at 10 p. m. on the 28th. The sewers in the district were heavily surcharged during the stoppage.

285. The combined total number of revolutions run by Nos. 1 and 2 (large) compressor engines during the year was 36,419,372. The revolutions of Nos. 3 and 4 (small) engines amounted to 21,524,993 during the same period. The previous year's totals were 29,969,314 and 28,118,987 respectively. The small engines are half the capacity of the large, so that the net increase in revolutions during the year on the basis of a large engine as compared with the previous year was 3,153,061.

286. The total quantity of sewage lifted by the ejectors worked from the station during the 12 months was approximately as follows :—

Ejector Station.	Quantity of sewage lifted in gallons.
No. 1 Fergusson District, DeLisle Road	498,873,000
No. 2 Do. Arthur Road	584,596,800
No. 1 Parel District, Elphinstone Road	189,492,000
No. 2 Do. Chinchpokli Road	115,755,000
No. 3 Do. Sewri Road	41,116,600
No. 1 Mazagon District, Church Street	270,099,600
No. 2 Do. Tank Bunder	37,437,500
No. 1 Agripada District }	49,207,800
No. 2 Do. }	
No. 1 Malabar Hill District, Warden Road	69,777,000
No. 2 Do. do. Nepean Sea Road	28,418,700
No. 3 Do. do. Gamdevi Road	29,620,800
Total Gallons ...	1,914,394,800

287. The above total shows an increase of 244,541,850 gallons on the total for the previous year.

288. The following table shows the total quantity of coal of different descriptions consumed during the year with their average rates per ton :—

Description of coal.	Tons.	Average rate.
		Rs. a. p.
Desharghur, Bengal	405	19 10 7
Jherria Screened Rubble	2546½	17 5 0
Ballihari, Bengal	250	17 8 10
Tricumjee's Special, Bengal	200	19 9 0
Seebpore, Bengal	203	18 7 3

289. The average rate per ton for all of the above descriptions of coal was Rs. 17-12-6 per ton against Rs. 15-13-10·8 in the previous year, and the average daily consumption was 9 tons, 17 cwts., 1 qr., 26 lbs. against 7 tons, 14 cwts., 20 lbs. in 1912-13.

290. In consequence of the high rates ruling for coal and the extra consumption consequent upon the heavy increase of work, the grant for fuel had to be supplemented by an additional grant of Rs. 12,250 from Surplus Cash Balance, *vide* the Corporation's Resolution No. 6183 of the 15th January 1914.

291. The work of fitting new Walker's air cylinders and valves to No. 4 (small) engine, which was in hand at the close of the previous year was completed and the engine re-started on the 24th October 1913. This completes the work of fitting new cylinders: but it is found that the valves of Messrs. Walker's latest design as fitted to Nos. 3 and 4 engines are so greatly superior to those of their earlier design as fitted to Nos. 1 and 2 engines that it will be advisable to fit the new pattern valves to the latter engines at an early date.

292. Two 4 B. H. P. electric motors with starters were purchased in July 1913 from Messrs. Crompton & Co. at a cost of Rs. 1,582 to replace the small steam engines used for driving the economiser scrapers and the mechanical strokers. They were fixed before the close of the year and worked satisfactorily.

293. It was mentioned in the previous year's report that a burst had occurred in the 15 inch cast-iron sealed sewage main in Fergusson Road, owing to a deep groove at the bottom of the pipe caused by the passage of silt, and fears were expressed that as the grove was seen to extend on either side of the broken pipe further renewals would be shortly necessary. These fears were in a great measure realized, as there were no less than seven bursts in the main during the year, involving a heavy expenditure for renewals, and it is probable that the entire renewal of the main will shortly have to be provided for.

294. There were again several leaks during the year in the 6 inch steel sealed sewage main serving the ejector station in Nepean Sea Road, owing to the pipes having corroded through at the sockets; and as it was evident that the main had come to the end of its useful life provision was made in the Budget for 1914-15 for the renewal of the main in cast-iron and the work will shortly be taken in hand.

295. Owing to the heavy cost of the renewals in Fergusson Road and the cost of pumping out the Chinchpokli Ejector Station at the time of the previously mentioned accident the grant for extra labour and repair to air and sealed sewage mains had to be supplemented by transfers from savings in the Establishment Grant, amounting to a total of Rs. 1,750.

296. Work was in progress during the year on the drainage of the Elphinstone Reclamation District on the System and the Ejectors for the work, comprising three Ejectors of 750 gallons each with tubbing, were received from Messrs. Hughes and Lancaster in February 1914. Their erection in the new Station opposite the Prince's Dock main entrance, was taken in hand the same month by the Municipal Workshops.

I

GENERAL.

IMPORTANT SUBJECTS REPORTED UPON.

297. The following is a list of important subjects which were reported upon:—

1. Acquisition of properties for frontage of new road from Sewree New Road to Parel Tank Road.
2. Acquisition of properties for Dadar Kumbharwada Road.
3. Acquisition of properties for Matunga New Road.
4. Bottoming a portion of Reay Road with cement concrete between Connaught and Ghorupdeo Roads.
5. Construction of road at Rose Cottage Lane.
6. Repairs to Frere Road.
7. Experiments with Calcium Chloride.
8. Experiments with Fluxphalte and Maxphalte.
9. Extension of New Matunga Road towards the West.
10. Lowering and otherwise improving the junction of Victoria and Ghorupdeo Roads.
11. Lowering, widening, and improving Sewree Road.
12. Opening out the area bounded by Charney Road, Grant Road, Lamington Road and Khetwadi Main Road and providing a market thereat.
13. Providing footpaths, refuges and overhead crossings at Queen's Road
14. Proposed road from DeLisle Road to Warli Road.
15. Treatment of road surfaces.
16. Strengthening beds of roads.
17. Widening DeLisle Road.
18. Widening of Reay Road to 90 feet.
19. Alignment of Dadar Overbridge.
20. Construction of Elphinstone Bridge at Parel.
21. Construction of Currey Road Overbridge.
22. Construction of the overhead Railway Overbridge at Matarpakhadi Road.
23. Removal of old and opening of new Overbridge at Sion.
24. Strengthening of French Bridge.
25. Widening and raising Hancock Bridge.
26. Widening Byculla Bridge.
27. Widening Masjid Overbridge.
28. Widening and raising Elphinstone Bridge.
29. Acquisition of Golanji Hill for Reservoir.
30. Acquisition of property for storage of road material at Sewree.
31. Alteration in the mode of charging for way-leave to the Telephone Co.
32. Comparative merits of gas and electric lighting.
33. Crossing of the overhead Railway on level at Gunpowder Road.
34. Development of Bombay.
35. Development of Mahim.

36. Utilization of the different areas of the Native Infantry Lines
37. Draft rules for places of public amusement.
38. Extension and removal of Central Stores.
39. Extension of the Victoria Terminus Station yard and exchange of land with the Railway Company.
40. Filling in the Storm-water Reservoir.
41. Grass siding of the B. B. and C. I. Railway on the Flats.
42. Improvement of Chikalwadi.
43. Motor Omnibus Service in Bombay.
44. Mode of further extension of Tramways in the City.
45. Development of communications in Bombay.
46. Removal of Bellasis Bridge Pipe Depôt and surrendering the land to Government for its transfer to the B. B. & C. I. Railway.
47. Addition and alteration in areas of rooms for habitation.
48. Reclamation of Cawasji Patel Tank.
49. Supervision of Road side trees.
50. Sale of a portion of the reclaimed land at Tardeo.
51. Transfer of Schedule D land to freehold land.
52. Revising regular line of streets.
53. Proposals for prescribing new or altered regular lines at the undermentioned places:—

    Imamwada Road between Old Nagpada Street to Jail Road North.

    Lady Jamshedji Road.

    Mahim Bazar Road from Mori Road to Bhandarwada Road.

    Gowalia Tank Road near its junction with Gibbs Road.

    Khambala Hotel Lane.

    Chikalwadi (Tardeo).

    Love Grove Pumping Station Road.

    Sleater Road.

    Love Lane from 60 ft. to 50 ft.

    Hancock Bridge from Chinch Bandar to Wari Bandar.

    Jairajbhai Street.

    Parbhadevi Road from DeLisle Road to the S. W. corner of Portuguese Church Tank.

    Girgaum Road near Framji Cawasji Tank.

    Corner of Falkland Road, Cawasji Patel Tank Road and Kika Street.

    Mahalakshmi Road from Clerk and Warden Roads to its junction with Bellasis and Falkland Roads.

    Fort Street near New General Post Office.

54. Proposals for marking new roads at:—

    Mahim woods.

    Sleater Road opposite Grant Road Station.

    Powwalla Road for Market.

BILLS, VOUCHERS, &c., RECEIVED AND PASSED.

298. Comparative statement of the number of bills, vouchers, &c., received, examined and passed during the five years from 1909-10 to 1913-14:—

Description.	1909-10.	1910-11.	1911-12.	1912-13.	1913-14.
Bills for Supplies, Works, &c.	25,275	24,691	20,821	21,631	22,126
Departmental Works Bills	5,468	5,783	3,691	3,310	3,595
Private Works Bills	3,349	3,121	2,469	2,687	3,028
Total ...	34,092	33,595	26,981	27,628	28,749

NOTICES, &c., ISSUED.

299. Comparative statement of the number of notices, &c., issued during the five years from 1909-10 to 1913-14.

Section of the Municipal Act.	Description.	1909-10.	1910-11.	1911-12.	1912-13.	1913-14.
	Streets and Buildings Branch.					
231	To provide rain-water eaves, gutters and down-take pipes	320	1,784	1,018	487	245
247	To provide water-closets, privies or urinals ...	7	1	1	...	...
257	To remove encroachments on drain, cesspool, house-gully, privy, urinal, &c.	1	...	...	...	...
299	Intimation to take possession of land outside building for street improvement	160	79	109	158	92
305	To level, metal or pave, drain and light private streets	82	87	103	42	118
308	To remove new projections	562	1,004	1,290	869	649
308-309	To remove new projections as well as old ones ...	8	52	45	15	3
311	To remove or alter door, or gate, bar or window opening upon a street	11	20	12	11	14
313 (5)	To remove any board or shelf within a height of 12 feet from the surface of the street	...	24	20	5	4
329	To repair, protect or enclose wells or dangerous places	16	28	21	12	11
349	To remove inflammable materials in external walls and roof covering	173	266	248	186	190
351	To remove, alter or pull down structures erected without Municipal approval or to submit plans for the same	19	30	38	29	37
353	To alter buildings erected or to amend works done contrary to the provisions of the Municipal Act or Building Bye-laws	261	361	343	380	276
354	To pull down ruinous houses	342	450	274	523	450
354-A	To remove persons directing works unlawfully carried on	...	75	82	264	128
380	Removing or altering insanitary huts or sheds ...	787	592	602	349	271
383	To cut and trim trees, shrubs and hedges... ...	3	6	3	5	2
488	Intimation of intention to enter houses after 24 hours' notice	2,211	1,427	1,668	1,163	797
351 (2)	Intimation of intention to enter houses after 48 hours' notice...	3	14	24	10	2
298 (2)	Intimation of intention to take possession of land occupied by buildings, &c.	3	...	3	3	3
Bye-law 48	Infringement of the provisions of the Building Bye-laws	2	12	3	1	...
Section I of Government Notification No. P-228 of 10th February 1897.	To prohibit further use of building as a dwelling..	...	25	7	...	20
	Total ...	4,916	6,329	5,909	4,518	3,314
	Drainage Ordinary Works.					
222	For laying Municipal drains through or under lands belonging to private parties	3	5	2	11	1
230	To carry drains through land belonging to other persons	13	20	10	8	7
231	To drain undrained premises within a hundred feet of a Municipal drain	711	623	788	701	742
232	To drain undrained premises not within a hundred feet of a Municipal drain	373	443	267	51	20
238	To declare joint ownership of a drain	5	8	5	2	8
243	To raise vent-pipes on the drain	31	27	14	19	10
244	To affix shafts or pipes or ventilation of drains, &c.	9	15	10	31	45
257	To renew, repair, &c., drainage of houses	817	958	1,130	975	1,210
258	To prohibit contraventions generally of the provisions of Chapter LX of the Municipal Act ...	...	1	1	...	...
...	Drainage of waste water from bleaching and dyeing works	...	...	37	...	...
	Total ...	1,562	2,100	2,264	1,798	2,043
	Drainage Loan Works.					
222	For the acquisition of land for making drains ...	...	...	...	...	1

SUMMARY.

Departments.	1909-10.	1910-11.	1911-12.	1912-13.	1913-14.
Streets and Buildings Branch	4,916	6,329	5,909	4,518	3,314
Drainage Ordinary Works	1,962	2,100	2,264	1,796	2,043
Drainage Loan Works	...	.....	.....	.....	1
Total ...	6,878	8,429	8,173	6,313	5,358

LETTERS, &c., RECEIVED AND DESPATCHED.

300. Comparative statement of the number of letters, references to Inspectors, &c., received and despatched during the five years from 1909-10 to 1913-14 :—

Departments.		1909-10.	1910-11.	1911-12.	1912-13.	1913-14.
General and Streets and Buildings Branches..	Inward ...	178,859	179,522	178,121	164,472	173,275
	Outward...	179,764	183,672	180,169	169,458	176,873
Drainage Ordinary Works	Inward ...	53,499	54,001	54,798	54,719	61,398
	Outward...	33,788	37,134	35,842	36,118	38,936
Drainage Loan Works	Inward ...	2,158	.....	.....	.....	.....
	Outward...	2,394	.....	.....	.....	.....
Total ...		449,962	458,729	448,930	424,162	452,482

301. The following is a summary of clerical work done by the different Branches of the Department:—

Consecutive No.	Description of Work.	General and Street and Buildings Branches.	Mechanical Branch.	Drainage Branch.	Total.
1	Letters, &c., received, including replies to references to Inspectors, &c.	173,275	5,660	61,398	240,333
2	Letters, &c., despatched, including references to Inspectors for report	178,873	6,187	38,936	223,996
3	Notices issued	3,314	.....	2,043	5,357
4	Summonses issued	944	.....	553	1,497
5	Contracts for annual and other supplies and for the construction of various works executed	43	.....	4	47
6	Leases of various rights sold	25	.....	.....	25
7	Vouchers received and passed...	12,460	675	8,991	22,126
8	References made to Inspectors, for certificates on vouchers	4,706	.....	4,196	8,902
9	Reports and certificates received from the Inspectors, &c.	4,592	.....	4,196	8,788
10	Departmental and private works bills prepared or received, checked and passed	4,807	1,212	604	6,623

Consecutive No.	Description of Work.	General and Streets and Buildings Branches.	Mechanical Branch.	Drainage Branch.	Total.
11	Statement of works done for private parties checked and passed	93	.....	.....	93
12	Statement of works done for Municipal Departments checked and passed	88	.....	.....	88
13	Workshops balance sheets prepared and forwarded	12	.....	.....	12
14	Statements of recovery of bills against private parties received	84	.....	.....	84
15	Requisitions prepared or received and forwarded...	363	7,970	2,395	10,728
16	Measurement slips for metal, sand, rubble, &c., received and checked	947	.....	.....	947
17	Morning and material reports, diaries, &c., prepared or received and checked	5,110	.....	.....	5,110
18	Muster Rolls received and checked	517	.....	.....	517
19	Statements of wages remaining unclaimed received and checked	108	.....	.....	108
20	Unclaimed wages, refund certificates prepared or received and passed	1,729	.....	.....	1,729
21	Work abstracts for road repairs and maintenance received and checked	84	.....	.....	84
22	Work abstracts for road watering received and checked	84	.....	.....	84
23	Permits issued for projecting verandahs, balconies, rewas, weather-frames, &c.	58	.....	.....	58
24	Permits issued for erection of scaffolding on public roads	761	.....	.....	761
25	Permits issued for opening roads	539	.....	.....	539
26	Permits issued for temporary occupation of public streets on marriage and other ceremonies ...	557	.....	.....	557
27	Advice notes for sale of tender forms, rights of cutting grass, hire of steam-rollers, carts, ground-rent, sale of building forms under Sections 337 and 342, supplying copies of office records, &c., prepared and forwarded to the Chief Accountant	3,430	.....	291	3,721
28	Licenses issued to Plumbers	139	.....	.....	139
29	Licenses issued to Surveyors	58	.....	.....	58
30	Authorities issued to Plumbers for opening roads under tram lines	6	.....	.....	6
31	Orders issued for adding ground	39	.....	.....	39
32	Permits for building or rebuilding houses granted either conditionally or unconditionally	3,525	.....	.....	3,525
33	Claims for compensation for lands, &c., taken up for street improvement passed	153	.....	.....	153
34	Number of road slips prepared and checked ...	75,555	.....	.....	75,555

WORKS IN CONNECTION WITH PLAGUE MEASURES.

302. The latrines, nahanis and water connnections at the different Private Health Camps at Dadar and Matunga were provided by the Municipality.

303. The following camps were erected and provided with latrines, stand-pipes for water-supply and lighting arrangements at Municipal expense :—

	No. of Rooms.
On Municipal Ground at—	
1. Babula Tank	46
2. Gilder Tank	50
3. Mahim Garden	50
4. DeLisle Road next to Nightsoil Depôt or Purbhadevi	75
On Private Land at—	
1. Victoria Bandar (belonging to the Colaba Land and Mill Co., Ltd.)	26
On Improvement Trust Land at—	
1. Agripada Estate	100
2. Government House Compound, Parel, belonging to Bombay Presidency King Edward Memorial ...	75
Total number of rooms ...	416

304. The total cost of erecting temporary bamboo matting huts amounted to Rs. 4,030.

305. The health camps which existed at the undermentioned places in the previous years were maintained at Municipal expense during the year :—

	No. of Rooms.
1. Babula Tank	46
2. Northbrook Garden	46
3. Mahim Station	30
4. Arthur Road	72
5. At the junction of Arthur Road and DeLisle Road ...	100
On Government Land at—	
1. Koli Lane, Colaba	20
Total number of rooms ...	284

306. The total cost of maintaining these camps amounted to Rs. 1,858.

MUNICIPAL SERVANTS' ACT.

307. No circumstance has arisen in this Department during the year to necessitate the putting of the Municipal Servants' Act into operation.

I have the honour to be,
Sir,
Your most obedient servant,

JAMES W. MACKISON, B.Sc., M.Inst.C.E.,
Executive Engineer.

J.

WATER WORKS.

Tansa Lake.

The total rainfall for the year measured near the outlet from the Lake was 93·26 inches or 4 per cent. above the average for the preceding five years, the rainfall for the preceding five years being :—

90·18	inches in	1908.
102·19	„	1909.
97·20	„	1910.
69·23	„	1911.
88·12	„	1912.

Rain fell on 92 different days and exceeded 3 inches per day on 7 occasions, the largest fall, *viz.*, 8·20 inches was on 25th June 1913. On 20 days the rainfall ranged from 1 to 2½ inches.

The first rainfall occurred on 4th June 1913 and the monsoon continued from that date upto 13th October 1913 and when the monsoon finally ceased. 70,924 million gallons had fallen on the catchment area of 33,600 acres ; of this quantity 34,739 million gallons or 49 per cent. of the total rainfall was received in the lake.

The lake commenced to overflow on 28th June 1913 when the rainfall amounted to 30·35 inches and overflowed intermittently for 74 days until 15th October 1913. The total quantity of water that passed over the waste weir was 23,513 million gallons or 68 per cent. of the quantity received in the lake.

The quantity of water delivered into the duct from the lake during the year was 7,278 million gallons of which 6,320 million gallons were received in the city, the balance 958 million gallons, being lost by evaporation, overflow from syphon heads and leakage along the duct.

The quantity of water lost from the lake through supply, evaporation, leakage and absorption between 1st April 1913 and 31st May 1913 was 2,215 million gallons and between 1st November 1913 and 31st March 1914 was 4,978 million gallons, making a total loss of 7,193 million gallons for 212 days or an average of 33·9 million gallons per day.

The loss of water by evaporation from the lake averaged during the dry months ·24" equivalent to 17·2 million gallons per day, the observed monthly evaporation being as follows :—

April	1913	...	9·6 inches.
May	„	...	9·6 „
November	„	...	6·2 „
December	„	...	6·5 „
January	1914	...	6·2 „
February	„	...	5·5 „
March	„	...	7·5 „

The lowest depth to which the water in the lake was drawn was 394·98 feet above T.H.D., leaving 14·98 feet or 9,848 million gallons available for consumption above the level of the lowest outlet.

The work of stopping the leakage along the aqueduct between Nos. 6 and 8 syphons was continued throughout the year and all visible leaks in the aqueduct between Tansa and Ghatkoper were measured towards the end of the year and found to amount to ⅛ million gallons per day against ·81 million gallons last year.

There were no bursts on the Tansa main during the year under reference.

The purity of water in the lake has been satisfactorily maintained. The following are the results of analysis of samples of water taken from the lake from time to time during the year :—

Date of Analysis.	Grains per gallon.		Parts per million.		Nitrites.	Remarks.
	Total solids.	Chlorine.	Free Ammonia.	Albd. Ammonia.		
April 1913	8·00	0·7	*Nil*	·106	*Nil*	
July ,, ...	7·00	0·6	·032	·172	*Nil*	
October ,, ...	8·00	0·9	·008	·090	*Nil*	
January 1914	7·00	0·6	*Nil*	·090	*Nil*	

Vehar Lake.

The total rainfall for the year was 90·47 inches or 14 per cent. above the average of the preceding five years, the rainfall for the preceding five years being :—

76·54 inches in 1908.
114·26 „ „ 1909.
77·50 „ „ 1910.
60·27 „ „ 1911.
69·55 „ „ 1912.

Rain fell on 100 different days and exceeded 5 inches per day on five occasions. On 23 days the rainfall varied from 1 to 4½ inches; the heaviest rainfall during the year was on the 26th June 1913 when 6 inches were recorded for the day.

The total rainfall on the catchment area of 3,900 acres amounted to 7,986 million gallons and 684 million gallons were received from the overflow from the Tulsi Lake; of these quantities 5,494 million gallons or 63 per cent. of the total was received into the lake.

The lake did not overflow during the year, the highest level attained being 253·77 feet above T. H. D. or 10·73 feet below the waste weir and 23·27 feet above the lowest outlet.

Owing to the low level of water in the lake, the curtailment of the supply from this lake brought into effect on 7th November 1911 was continued throughout the year.

The total quantity of water lost by supply, evaporation, absorption and leakage from the Vehar Lake, between 1st April 1913 and 31st May 1913 was 731 million gallons and between 1st November 1913 and 31st March 1914, 2,035 million gallons making a total of 2,766 million gallons for 212 days or an average of 13 million gallons per day.

The total quantity of water received in the city during the year by the 32″ and 24″ diameter mains from the lake was 3,088 million gallons, making an average of 8·46 million gallons per day.

The loss of water by evaporation from the lake averaged ·15 inches equivalent to 2·45 million gallons per day, the observed monthly evaporation being :—

April 1913 ... 10·5 inches.
May „ ... 6·0 „
November „ ... 2·7 „
December „ ... 3·0 „
January 1914 ... 3·0 „
February „ ... 2·7 „
March „ ... 4·5 „

The lowest depth to which water in the lake was drawn before the break of the monsoon of 1913 was 236·03 feet above T. H. D., leaving an available depth in the lake of only 5·53 feet or 1,009 million gallons for future supply.

There were no bursts on the 32" main during the year.

The purity of this water has been well maintained notwithstanding the low level of the lake. The following statement shows the results of analysis made at different periods of the year under report.

Date of Analysis.	Grains per gallon.		Parts per million.		Nitrites.	Remarks.
	Total solid.	Chlorine.	Free Ammonia.	Albd. Ammonia.		
April 1913	7·00	0·8	·016	·244	*Nil*	
July „	7·00	0·9	*Nil*	·236	*Nil*	
October „	6·00	0·8	*Nil*	·166	*Nil*	
January 1914	7·00	1·1	*Nil*	·188	*Nil*	

Tulsi Lake.

The total rainfall for the year at Tulsi was 94·97 inches or 3 per cent. above the average for the preceding five years, the rainfall for the preceding five years being :—

101·96 inches in 1908.
127·21 „ 1909.
84·36 „ 1910.
70·35 „ 1911.
77·25 „ 1912.

Rain fell on 91 different days and exceeded 4 inches per day on seven occasions. On 21 days it ranged from 1 to 3 inches per day.

The total rainfall on the catchment area of 1,700 acres amounted to 3,654 million gallons and it is estimated that 74 per cent. of this quantity or 2,706 million gallons were received in the lake.

The lake commenced to overflow on 25th July 1913 when the rainfall amounted to 64·64 inches and overflowed intermittently for 38 days until 23rd September 1913. The total quantity of water that passed over the waste weir into the Vehar Lake was 684 million gallons or 25 per cent. of the quantity received in the lake.

The total quantity of water lost from the lake by supply, evaporation, leakage and absorption, between 1st April 1913 and 31st May 1913 was 245 million gallons and between 1st November 1913 and 31st March 1914 was 864 million gallons, making a total of 1,109 million gallons for 212 days or an average of 5·23 million gallons per day.

The total quantity received in the city was, 1,222 million gallons or an average of 3·35 million gallons per day.

The average daily loss of water by evaporation from the lake was ·14 inches equivalent to 0·75 million gallons, the following being the observed monthly evaporation :—

April 1913..... 5·6 inches.
May „ ..... 6·0 „
November „ ..... 2·7 „
December „ ..... 3·0 „
January 1914..... 3·0 „
February „ ..... 2·7 „
March „ ..... 6·0 „

The lowest level to which the water in the lake was drawn before the break of the monsoon of 1913 was 434·34 feet above T. H. D., leaving 34·98 feet or 723 million gallons in the lake for future supply.

The following table shows the result of analysis of the water in the lake at various periods of the year :—

Date of Analysis.	Grains per gallon.		Parts per million.		Nitrites.	Remarks.
	Total solids.	Chlorine.	Free Ammonia.	Albd. Ammonia.		
April	8·00	1·00	*Nil*	·20	*Nil*	
July	8·00	0·80	*Nil*	·198	*Nil*	
October	7·00	0·70	*Nil*	·160	*Nil*	
January	7·00	1·00	·008	·214	*Nil*	

RESERVOIRS AND FILTERS, MALABAR HILL.

The work of water-proofing the reservoirs and filter beds referred to in the report for 1912-13 has now been practically completed. The two reservoirs, vaults under filters Nos. 1 to 4 and also the filters themselves have been rendered with Portland Cement and made practically water-tight. A contract has been entered into for the supply of the additional sand required for the filters, which is now being delivered.

The ventilating shafts over reservoir No. 1 have been improved and altered and all openings in the roofs of reservoir No. 2 and the filters have been either permanently closed or protected with gauze wire netting to prevent the spread of mosquitoes.

A masonry tower with an overhead C. I. tank has been erected at the north-west corner of the reservoir and the old oil engines and plunger pumps which have been in use since 1904 for supplying water to the high level districts on Malabar Hill and Cumballa Hill have been substituted for electrically driven turbine pumps erected within the tower. These pumps will shortly be brought into use and the old pumps will be removed. The masonry tower has been erected under a contract entered into with Messrs. Fazulbhoy Peermahomed and Co., who commenced work on 14th December 1912. The pumps and motors were supplied and erected under a separate contract entered into with Messrs. Turner, Hoare and Co., on 24th April 1913. An improvement in the supply to the surrounding districts is anticipated when the new pumps are brought into use. The overhead tank has been designed to act as a balancing reservoir to meet the maximum demand and at the same time to maintain the working of the pumps under a constant head. The outlet well at the reservoir is now undergoing considerable alteration in connection with the duplication of the Tansa main and to accommodate the additional inlet and outlet mains from the reservoir, a new tunnel is being built under Gibbs Road. This outlet well in which the old engines, pumps and turbine at present exist will in future be utilised exclusively as a "control" room and office for the Inspector in charge of the reservoir and will contain all the sluice valves, recorders and measuring apparatus in connection with the two reservoirs. All these works are being carried out departmentally and the progress made with them during the year has been satisfactory.

BHANDARWADA RESERVOIR.

The Bhandarwada Reservoirs and Filters have been efficiently maintained throughout the year and show no signs of leakage. The reservoirs at this station as also those at Malabar Hill have been provided with automatic water level recorders and additional sand has been purchased for the filter beds.

A new screening chamber has been constructed on the west side of the reservoir through which the whole of the water received at the reservoir from the Vehar Lake is passed, before entering the filters. This chamber has effected a considerable saving in labour and is a material improvement to the works.

Proposals for improving the regulating arrangements from the filters have been sanctioned and these works will be taken in hand during the year 1914-15.

DISTRIBUTION WORKS.

Works in connection with the renewing, enlarging existing water mains and laying additional mains have been continued during the year, 11½ miles of new pipes having been laid. The following table shows the sizes and lengths of various water mains laid during the year including the distributing mains within the city in connection with the Tansa Duplication Scheme.

Ward.	Locality.	Size of old main.	Size of new main.	Length of new main in lineal feet.	Remarks.
B	Carnac Road	...	15"	160	
	Jackeria Musjid Street ...	3"	5"	1,020	
	Kambekar Street	3"	5"	670	
	New Chinch Bunder Road...	...	18"	1,200	
	Do. ...	...	6"	1,400	
	Guzer Street	3"	5"	1,086	
	Undria Street	3"	5"	800	
	Princess Street	4"	24"	1,100	New distributing main.
C	Mustan Tank Road... ...	3"	5"	260	
	Vithoba Lane	3"	5"	180	
	Shaik Memon Street ...	3"	5"	640	
	Queen's Road	24"	24"	800	New distributing main.
D	Chimna Butcher Street ...	3"	5"	830	
	Forjett Street	...	6"	1,285	
	New Tardeo Road	...	5"	800	
	Choupatti Estate	...	6"	1,651	
	Dadi Street	...	6"	1,162	
E	Parel Road	...	12"	1,925	
	DeLisle Road	32"	32"	6,200	New distributing main.
	Sandhurst Road	...	26" & 24"	3,880	
	Reay Road	9"	9"	2,685	Diversion.
	Do.	9"	9"	2,400	Do.
	Do.	...	5"	1,512	
	Clerk Road	24"	24"	780	Diversion.
	Belvedere Hill Road ...	...	14"	322	New distributing main.
F	Elphinstone Road Bridge ...	15"	15"	328	Diversion.
	Do. do ...	...	5"	1,365	
	Curry Road...	...	4"	164	
	DeLisle Road	...	12"	610	
	Do.	...	9"	995	Private main.
	Mahim Bazar Road... ...	4"	12"	11,776	New distributing main.
G	Dadar Road...	9"	9"	500	Extension.
	Fergusson Road	6"	12"	930	
	Sion Road Bridge	4"	4"	250	Diversion.
	Vehar to Saki	32"	48"	9,053	Steel main.

MAINTENANCE WORKS.

There were 49 bursts during the year as against 57 during 1912-13, 41 during 1911-12, and 76 during 1910-11.

1	...	48" main.
3	...	15" „
1	...	8" „
2	...	6" „
15	...	4" „
27	...	3" „

The number of new connections made during the year was 625 including 4 branch connections. Connections cut off for various reasons numbered 260 of which 141 were restored. The net increase therefore in the number of connections is 506 or 2·1 per cent. of the total number of connections which now stands at 24,460.

The total number of Municipal meters at present in use is 2,989. The number of meters removed and tested during the year was 2,615 with the following results :—

Stopped working	...	1,079
Working slow	...	1,103
Working fast ...	...	52
Test correct ...	...	381

These figures do not include a large number of tests made on the spot without removing the meters.

The number of disconnection orders submitted to the Standing Committee from time to time during the year was 520 against 572 last year. All these were sanctioned and have been dealt with as follows :—

(1) Disconnections not enforced owing to parties having complied with requirements	459
(2) Disconnections enforced	61
(3) Connections restored on compliance with Municipal requirements	56
(4) Connections remained unrestored	5

Waste Prevention.

The Waste Prevention Branch of the Water Works Department continued their operations throughout the year with the result that 1,034 underground and 25,599 above ground defects were detected and repaired.

The following comparative statement shows the total length in feet of water mains examined during the year under report and the preceding five years :—

	Excluding 2nd and subsequent tests.	Including 2nd and subsequent tests.
From 1st April 1908 to 31st March 1909	36,290	14,28,455
From 1st April 1909 to 31st March 1910	35,160	14,92,950
From 1st April 1910 to 31st March 1911	23,545	16,10,531
From 1st April 1911 to 31st March 1912	50,226	18,33,428
From 1st April 1912 to 31st March 1913	35,965	24,36,482
From 1st April 1913 to 31st March 1914	45,317	23,56,067

The total length of mains of all sizes sounded during the year under report was 53 miles and 280 feet.

The number of defect notices issued during the year was 3,968 against—

4,496 issued during the year 1908-09
3,890 „ „ „ 1909-10
3,617 „ „ „ 1910-11
4,594 „ „ „ 1911-12
5,031 „ „ „ 1912-13

Particulars of defects and leaks detected and remedied from 1st April 1913 to 31s March 1914 are given in the following statement marked A

The quantity of water found running to waste as ascertained from inspections of water mains is given in the following statement.—

Month.	No. of Waste Water Meter diagrams taken.	Wastage discovered and stopped in gallons per hour.	Wastage discovered and stopped on large size mains in gallons per hour.
1913.			
April	122	14,125	6,150
May	123	30,300	.....
June	116	23,225	.....
July	121	30,810	.....
August	98	20,610	.....
September	113	18,395	.....
October	112	25,160	2,500
November	118	36,775	200
December	117	21,415	13,500
1914.			
January	120	19,320	30,430
February	97	20,945	19,150
March	87	12,450	62,950
Total ...	1,344	273,580	184,880

STATEMENT A.

Statement of above ground defects found at the Inspection of House Fittings during the year 1913-14 :—

Period.	Bib taps.			Service pipes.		Ball valves and tanks.			Stop taps leaking.	Sluice valves leaking.	Hydrants.		Meter coupling, flanges, holes, etc.	Miscellaneous.	Remarks.
	Out of order.	Leaking.	Left open.	Leaking.	Without taps.	Ball valve out of order.	Tanks with out ball valves.	Tanks leaking.			Old pattern.	New pattern.			
1913.															
April	256	935	41	202	6	62	82	6	136	110	96	159	56	88	
May	308	819	18	197	14	79	35	6	85	130	114	212	64	77	
June	267	981	27	209	5	137	36	15	95	144	137	162	25	79	
July	261	835	32	228	12	66	29	17	97	170	141	164	85	132	
August	155	913	36	213	15	53	26	5	114	121	132	167	118	65	
September	184	825	33	146	9	78	16	1	97	113	107	134	98	87	
October	235	1,061	24	178	13	88	15	15	173	141	90	232	85	108	
November	176	1,059	50	153	17	71	7	9	120	91	84	193	86	64	
December	191	1,017	27	155	6	60	8	1	104	106	114	209	89	126	
1914.															
January	280	843	47	145	14	53	10	6	112	90	145	221	73	153	
February	176	663	44	152	14	66	11	2	105	108	121	242	90	71	
March	198	674	43	129	4	69	10	3	92	100	70	162	67	89	
Total	2,837	10,650	422	2,102	129	871	335	86	1,370	1,423	1,360	2,307	988	1,189	

Total of defects = 25,599.

Statement of underground defects found on Mains and Service Pipes up to the Stop Cocks by the Superintendent, Waste Prevention at the Inspection of Water Mains during the year 1913-14 :—

Period.	Mains.		Sluice valves.		Hydrants.				Service pipes.		Stop taps.				Disconnected service pipes.		Water posts.	Miscellaneous holes in Mains, &c.
					Old pattern.		New pattern.				Old pattern.		New pattern.					
	Burst.	Joint.	Heavy.	Slight.	Heavy.	Slight.	Heavy.	Slight.	Broken.	Leaking.	Heavy.	Slight.	Heavy.	Slight.	Ferrule leak.	Pipe leak.		
1913.																		
April	...	6	2	15	3	9	3	9	2	3	...	...	...	1	...	...	...	...
May	1	3	6	20	1	7	6	6	4	16	...	...	...	1	3	2	2	...
June	1	5	1	7	6	8	6	2	15	3	2	...	...	1	...	1	...	...
July	1	7	11	14	6	13	3	11	18	20	...	...	8	9	...	5	...	...
August	...	5	5	6	5	11	3	3	7	15	...	...	7	10	...	2	...	1
September	...	2	7	5	9	8	4	11	14	18	...	1	3	3	2	...	...	...
October	...	4	13	5	4	6	4	6	7	25	1	1	2	2	1	2	...	1
November	4	7	9	16	4	4	3	14	7	16	3	...	6	3	1	1	1	1
December	...	9	6	18	1	12	11	9	...	18	...	...	...	8	3	...	1	...
1914.																		
January	3	14	4	6	2	10	3	21	4	21	...	2	1	7	3	...	1	...
February	3	15	7	11	6	6	3	12	1	19	...	...	...	5	...	...	1	...
March	...	17	2	13	...	...	1	7	5	12	...	...	4	6	2	1	...	...
Total	11	94	73	131	47	94	55	101	87	201	6	4	31	69	18	9	6	4

Total number of defects found while inspecting the Water Mains = 1,034
" " " House Fittings = 25,599
Grand total of defects = 26,633

Financial.

The Budget grant for the maintenance of the Water Department for the year was Rs. 3,95,964 which with the lapsed grants renewed and with the transfers and additional grants sanctioned amounted to Rs. 4,87,956-2-7. The total expenditure incurred against this sum and paid for during the year amounted to Rs. 3,70,070-5-9* leaving an unexpended balance of Rs. 1,17,885-12-10* a portion of which will be renewed in 1914-15 to meet the liabilities incurred during the year.

SUMMARY OF CLERICAL WORK DONE BY THE WATER WORKS DEPARTMENT.

1.	Number of letters received during 1913-14	19,602
2.	Number of letters despatched during 1913-14	18,517
3.	Number of references made to Inspectors	37,417
4.	Number of reports received from the Inspectors	96,596
5.	Number of vouchers received and passed during 1913-14 ...	1,824
6.	Number of Departmental and Private Works Bills prepared and forwarded during 1913-14	1,738
7.	Number of references made to the Inspectors, etc., for certificates on vouchers	1,680
8.	Number of reports and certificates received from the Inspectors	1,680
9.	Number of requisitions received and forwarded	1,582
10.	Number of Notices issued in connection with defective pipes and fittings	6,298
11.	Total number of contracts executed	9
12.	Number of advices sent to the Chief Accountant	2,382

* These figures are subject to revision by the Chief Accountant.

TANSA WORKS.

Works for increasing and improving the Water Supply to Bombay.

These works have been briefly described in the report for the year 1912-13 as follows :—

(1) Raising Tansa Dam.

(2) Removal of villages from Tansa Catchment area.

(3) Widening earthwork embankments along Tansa Syphons.

(4) Duplication of Tansa Syphons 1 to 8.

(5) Laying additional distributing mains in the city.

(6) Construction of a terminal reservoir at Ghatkoper.

(7) Construction of a service reservoir at Golangi Hill.

(8) Constructing a service reservoir at Sion Hill.

The progress made during the year with the work of Raising the Dam has not been all that was anticipated. The contract was let to Messrs. Pallonji Edulji and Son on 2nd September 1912, who undertook to complete it by the end of May 1914, but chiefly on account of the scarcity of labour and difficulty in obtaining suitable lime the work will not be complete before the monsoon of 1915.

With regard to the removal of the villages from the catchment area of the lake, revised estimates have been called for and it is expected that negotiations in connection therewith will be opened.

The widening of the earthwork embankments along the syphons has been completed and good progress has been made with the duplication of the syphons 1 to 8. The latter works have been divided into two sections, one comprising the supplying and laying of 50" diameter steel pipes along syphons 1 to 7 and along syphon 8 from the syphon head as far as the Kirol sluice house. The other section of work along syphon No. 8 from Kirol sluice house to the city comprises the supply of 48" and 36" diameter C. I. pipes under contract and laying them departmentally.

The contract for the steel main section has been let to Messrs. Mephan Ferguson Proprietary, Ltd., who have erected a factory for the manufacture of the pipe at Gundoli about 5 miles north of Thana on syphon No. 6. About 30 pipes per day are being turned out at this factory and the Contractors hope to complete the manufacture of all the pipes required for the work before the end of the monsoon of 1914. The work of conveying these pipes to the various syphons and laying them has been sublet to Messrs. Pallonji Edulji and Son who have laid about 18 miles of tramway for the purpose and have transported all the pipes required for syphon No. 5 and about 5 miles of piping required for syphon No. 6. This work is progressing satisfactorily and it is anticipated that the new 50" steel main will be laid complete and brought into use by the end of 1915. With regard to the Cast Iron section of the work, Messrs. Turner Hoare and Co., the contractors for supplying the pipes, have made excellent progress in the delivery of all pipes, valves and castings required and the work of laying them departmentally is progressing rapidly. It is hoped that the whole of the cast iron pipes will be delivered by January 1915, and the laying of the same completed by June 1915.

Good progress has also been made with the laying of the additional distributing mains within the city. A 32" diameter main has been laid in DeLisle Road from Arthur Road to Nesbit Lane, a 12" main in Mahim Bazar Road from Purbhadevi Road to Mori Road, a 12" main in Fergusson Road from the Tulsi pipe Line to Worli ; a 12" main in Parel Road from Grant Road to Bellasis Road, a 24" main in Sandhurst Road from Chirni Road to Parel Road and a 24" main along Princess Street and Queen's Road from the junction of Princess Street and Girgaum Road to the junction of Queen's Road and Thakurdwar Road.

The construction of a terminal reservoir at Ghatkoper and service reservoirs at Golangi Hill and Sion have not yet been put in hand, but trial pits have been made along the site of the dam at Ghatkoper and a suitable site for the line of dam selected. Steps will now be taken to acquire the land at Ghatkoper and start the work of constructing the dam.

K—FIRE BRIGADE.

I have the honour to submit the Annual Report on the working of the Fire Brigade Department for the year 1913-1914.

The number of calls received during the year totalled 281, resulting in 224 fires and 36 false alarms. In several cases more than one call was received for the same fire.

Fires extinguished by the Brigade numbered 150, and 74 were extinguished before the arrival of the Brigade.

The actual fires show an increase of 62 over the previous year and 98·4 over the average of the preceding 10 years.

The estimated fire loss has amounted to Rs. 64,75,696, while the property at risk has been rated at Rs. 1,44,89,212.

Estimated loss to insured property has amounted to Rs. 60,53,572 and to uninsured Rs. 4,22,124. Buildings damaged by fires numbered 53, of which 37 were insured and 16 uninsured.

Seventy-nine fires occurred in Buildings where only the contents were damaged, 33 of which were covered by insurance and 46 uninsured, and 92 occurred on open ground and consisted principally of cotton, coal and jowli huts. Of these insurance had been effected in 34 cases and in 58 the property was not insured.

The loss compared with the previous year shows an increase of Rs. 49,55,603 and is chiefly attributable to the large cotton fire on the 23rd March, which was responsible for 40 lakhs, and to the exceptional number of fires that have occurred during the year.

The most disastrous fires of the year were those at Tamarind Lane, Fort, on the 8th November, where 3 firemen lost their lives by the collapse of a floor, and at Bhuleshwar Road on the 6th February where 5 persons were burned to death and 3 others were killed by falling; 10 persons were also rescued at this fire by means of an escape. A telegram was received from His Excellency the Governor of Bombay thanking and commending the Brigade for their work at the fire at Tamarind Lane, and to convey his especial condolences to the relatives of the 3 firemen who died bravely in the performance of their duty.

Other serious fires occurred at Victoria Bunder on the 18th November, Shaikh Memon Street on the 28th November, Mutton Street on the 30th December, and at the Cotton Green on the 23rd March.

Nine persons lost their lives at fires, and five received injuries to such an extent that death subsequently ensued. Several others received minor injuries.

The emergency van turned out on 6 occasions to fallen buildings, 6 persons lost their lives by being overwhelmed, and 14 received slight injuries, since recovered.

The approximate quantity of water used for extinguishing fires has been 11,215,406 gallons or 50,067·8 tons. Of this quantity 7,795,156 gallons were taken from the street mains and 3,420,250 gallons from the sea.

The water supply during the year has been satisfactory and the attendance of the Water Department staff prompt.

Fire Hydrant inspection throughout the City has been carried out periodically, and the fire service at the Municipal Office and the Markets kept in good order and the staff drilled.

All the motor appliances have worked satisfactorily, the distance covered by these engines to and from the 260 calls of fires being 2,837 miles.

A site for a new station at the Fort has been decided on at Mint Road and the ground will shortly be acquired from Government. A new station for the Dadar District has been proposed and a portion of the Niagaum Tank will shortly be filled in for the purpose. It will be necessary for the better accommodation of modern appliances to reconstruct the Gowalia Tank Station at an early date. It is also proposed to carry out alterations at the Mahim Station to accommodate a small motor appliance and more staff.

The fire alarm system sanctioned by the Corporation last year has been established and installations have been connected to the Byculla, Gowalia Tank, Chinchpokli, Fort, Colaba, Bhuleshwar and Mandvi Stations. Seven of the sanctioned number of alarms have still to be erected; but as soon as certain difficulties have been overcome these will be taken in hand. The working has been very satisfactory. It is proposed to add 25 more alarms to the system.

A contract with Messrs Balmer, Lawrie and Company for 1,800 feet of hose and motor wheels was satisfactorily completed, and provision has been made in the ensuing year's budget for a petrol Motor First Aid Tender and escape, hose, smoke helmets and other small articles.

Five members were invalided from the service during the year and 62 resigned or otherwise left. Pensions were granted to the widows of 3 firemen killed at Tamarind Lane and to the widow of Engineer Rahiman Moses, who received internal injuries while turning

out to a fire on the 30th December. Several men received injuries at fires, none of which have proved serious. General health of the staff has been good.

An increase of two motor-drivers to the strength of the Brigade was sanctioned by the Corporation, making a total of 262 of all ranks.

A course of lectures on First Aid to the Injured has been arranged for the Brigade at the Byculla Station, and 50 men are now attending.

The efficiency of the Brigade has been maintained.

Every assistance has again been rendered to the Brigade by the Police Department and Salvage Corps, to whom I wish to express my thanks.

I have the honour to be,
Sir,
Your most obedient servant,
T. C. GREENOP,
Chief Officer, Fire Brigade.

Budgetted strength and equipment of the Brigade :—

Strength.

1	Chief Officer.	16	First Class Tindals.
3	Clerks (1 temporary)	9	Second Class Tindals
1	Head Foreman.	122	First Class Firemen.
7	Foremen.	63	Second Class Firemen
1	Mechanic.	4	Mochies.
8	Engineers.	5	Drivers.
1	Fitter.	4	Grooms.
14	Motor Drivers.	1	Chauffeur.

Making a total of 260 men of all ranks. (2 Motor Drivers sanctioned from 1st December 1914, not included).

Equipment.

6	Horse-drawn Steam Fire Engines.	9	Hand Fire Escapes.
4	Petrol Motor Engines.	8	Manual Engines.
4	Steam Motor Engines.	1	Hose Van.
1	Petrol Motor Tender.	1	Emergency Van.
1	Motor Turntable Ladder.	1	Brake.
1	Motor Chemical Engine.	10	Horses.
17	Hose Reels.	1	Motor Car.
8	Tender Carts.	36,050	feet of Hose and other small appliances.

Statement showing the Distribution of Engines, etc.

Numbers.	Station.	Petrol Motor Pump.	Motor Steamer.	Horse Steamer.	Manuals.	Hose Reels	Coal Carts.	Motor Chemical Engine.	Motor Tenders.	Motor Ladder.	Fire Escape.	Hose Van.	Brake.	Emergency Van.	Horses.	Delivery Hose, 50 feet.	Foremen.	Motor Mechanics.	Engineers.	Fitters.	Motor Drivers.	First Class Tindals.	Second Class Tindals.	Firemen of Grade.	Drivers.	Grooms.	Mochies.	Remarks.
1	Byculla ...	...	1	5	1	2	3	...	...	...	2	1	1	1	8	209	1	1	4	1	2	4	1	33	4	3	1	
2	Haines Road ...	...	1	...	...	1	...	...	...	1	...	...	...	...	...	87	1	...	...	...	3	1	1	17	...	...	...	Escape carried on Motor Tender.
3	Gowalia Tank	...	1	...	...	1	1	1	...	...	...	1	...	...	...	42	1	...	...	...	1	1	1	22	...	...	1	
4	Chinchpokli ...	...	1	...	...	...	1	1	...	...	...	1	...	...	...	51	1	...	...	...	2	1	1	18	...	...	2	Escape carried on Motor Pump.
5	Babula Tank	...	...	1	...	...	2	1	1	...	...	1	...	...	...	73	1	...	1	...	2	1	1	16	...	...	...	Escape carried on Chemical Engine.
6	Fort	...	...	...	1	...	1	...	...	...	...	1	...	...	2	37	1	...	1	...	...	1	1	13	1	1	...	
7	Colaba ...	...	1	...	...	1	4	1	...	...	...	1	...	...	...	68	1	...	...	...	1	1	1	16	...	...	...	Escape carried on Motor Pump.
8	DeLisle Road	...	...	...	...	1	1	...	...	...	...	...	...	...	...	16	...	...	...	...	...	1	...	7	...	...	...	
9	Mahim ...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	13	...	...	...	...	...	1	...	7	...	...	...	
10	Dadar ...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	13	...	...	...	...	...	1	...	7	...	...	...	
11	Mazagon ...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	13	...	...	...	...	...	1	...	7	...	...	...	
12	Bhuleshwar ...	...	...	1	...	...	1	...	...	...	1	...	...	...	...	41	...	...	1	...	1	1	1	6	...	...	...	
13	Mandvi ...	...	...	1	...	...	1	1	...	...	1	...	...	...	...	66	1	...	1	...	2	1	1	16	...	...	...	
	Total	...	4	4	6	8	17	8	1	1	1	9	1	1	10	721	8	1	8	1	14	16	9	186	5	4	4	

MUNICIPAL FIRE BRIGADE.

Summary of calls to fires (including false alarms) showing the number of times that appliances were used for attending and extinguishing fires during the year 1913-1914 :—

STATIONS.	No. of Fire Alarms attached.	How called.							Appliances attended.								How extinguished.									Sprinklers actuated.	REMARKS.
		By Stranger.	By Police.	By Fire Alarms.	By Exchange Telephone.	By Private Telephone.	Total.		Manuals.	Hose Reels.	Horse Steamers.	Motor Steamers.	Motor Pumps.	Motor Tenders and Escapes.	Motor Turntable ladder.	Hand Escapes.	Hose Van, etc.	Buckets.	Hand Pumps.	Chemical Extinguisher.	Chemical Engine.	Hydrant.	Steamers.	Motor Pump.	Manual.	Sand.		
Byculla ...	6	1	1	11	128	...	141		...	3	22	38	2	...	...	7	12	...	1	...	...	2	13	1	...	...	123	Fire alarm system established 10th December 1913.
Haines Road...	...	...	...	...	...	...	...		...	1	...	...	53	37	...	...	...	1	...	...	...	9	...	13	...	...	...	
Gowalia Tank.	6	3	...	2	...	...	5		...	3	6	...	45	...	...	17	...	...	1	1	...	4	...	17	...	...	...	Fire alarm system established 29th January 1914.
Chinchpokli ...	3	3	...	...	...	...	3		...	12	...	...	55	...	...	51	...	3	...	...	...	17	...	17	...	...	...	Fire alarm system established 3rd January 1914.
Babula Tank...	...	4	2	...	...	...	6		...	4	...	125	...	117	...	...	...	3	5	1	3	4	12	...	...	...	...	
Fort	8	5	...	18	...	...	23		...	6	65	...	...	...	...	44	...	...	...	2	...	7	10	...	...	6	..	Fire alarm system established 4th August 1913.
Colaba ...	5	4	1	18	...	...	23		...	24	...	...	40	...	...	39	...	6	...	2	...	7	...	11	...	4	...	Fire alarm system established 23rd May 1913.
DeLisle Road...	...	1	1	...	...	...	2		11	11	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
Dadar ...	...	...	2	...	...	...	2		8	8	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	
Mahim ...	...	2	1	...	...	...	3		5	5	...	...	...	...	...	...	...	1	...	...	...	2	...	...	...	...	...	
Mazagon ...	...	1	...	...	...	...	1		3	11	...	...	...	...	...	...	...	...	...	...	...	4	...	...	3	...	...	
Bhuleshwar ...	8	6	3	47	...	...	56		...	52	...	121	...	...	...	56	...	5	...	3	...	8	12	...	...	...	...	Fire alarm system established 12th November 1913.
Mandvi ...	8	...	1	14	...	1	16		...	...	...	96	...	...	50	...	...	2	1	...	...	11	17	...	...	1	...	Fire alarm system established 29th September 1913.
Total ...	44	30	12	110	128	1	281		27	140	93	339	195	154	50	217	12	22	8	9	3	77	64	59	3	11	123	

List of causes of fires for the year 1913-1914.

CAUSES.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Total.
Acid, upset	...	...	...	...	...	...	...	...	...	1	...	...	1
Ashes, hot ...	...	...	...	...	...	...	...	...	...	1	...	...	1
Do. thrown down ..	...	...	...	...	...	...	...	...	...	...	...	1	1
Boiler, overheating of ...	...	...	1	...	...	...	...	...	...	...	...	...	1
Dammer boiling over ...	...	...	...	...	...	...	...	...	...	...	1	...	1
Decoration coming in contact with naked light	...	1	...	...	...	...	...	..	...	...	...	...	1
Defective electric circuit.	...	1	3	...	2	1	1	...	...	...	1	1	10
Doubtful...	...	...	...	...	...	...	...	1	...	...	3	2	6
Drying waste on boiler.	...	...	...	...	1	...	...	...	...	...	...	...	1
Fat boiling over ...	...	...	...	...	...	1	...	...	...	...	1	...	2
Fireplace, overheat of ...	...	1	...	...	...	...	...	1	...	2	1	...	5
Fire, sparks from ...	..	...	2	1	1	...	1	2	2	4	1	7	21
Fireworks, explosion of ...	...	...	...	...	...	...	1	...	...	...	...	...	1
Firewood, drying ...	...	...	...	...	...	...	...	...	1	...	...	...	1
Foul flue	...	...	...	...	...	1	...	...	...	...	..	...	1
Friction	1	...	...	...	...	...	...	1	2	2	3	2	11
Gas, escape of	...	...	...	...	1	.	...	...	1	...	...	...	2
Kerosine oil upset ...	...	...	...	...	...	...	1	1	...	..	...	...	2
Kerosine oil lamp burst-ing	...	...	...	...	...	...	...	...	2	...	...	...	2
Kerosine oil lamp, over-heat of	...	...	...	...	...	...	1	...	...	...	...	...	1
Kerosine oil lamp upset.	1	...	1	...	...	...	1	...	1	1	1	2	8
Light thrown down ..	8	1	1	...	3	2	4	8	6	7	8	5	53
Locomotive, sparks from..	...	...	...	...	...	...	...	...	2	...	...	...	2
Matches, children playing with	...	...	...	...	...	...	...	...	...	1	...	2	3
Naked light, celluloid coming in contact with	...	...	...	...	...	...	1	...	...	...	...	...	1
Naked light, clothing coming in contact with.	...	...	...	...	...	...	...	...	...	1	...	...	1
Oil engine, overheat of exhaust pipe of ...	...	...	...	...	...	...	...	1	...	...	...	...	1
Oil lamp upset	1	...	1	...	...	...	...	2	2	1	1	...	8
Oil upset...	...	...	...	...	...	...	...	...	...	1	...	...	1
Oil boiling over	...	...	...	...	...	...	...	1	...	...	1	...	2
Petrol vapour, naked light coming in contact with.	...	...	...	...	...	...	...	...	2	...	...	...	2
Pitch boiling over ...	...	1	...	...	...	...	...	...	1	...	...	...	2
Rubbish burning ...	...	...	...	...	...	...	1	...	...	...	...	...	1
Spirit, methylated, upset..	...	...	...	...	...	...	...	...	..	...	1	...	1
Spirit vapour coming in contact with naked light	...	1	...	...	..	...	...	...	...	...	...	...	1
Spontaneous ignition ...	..	4	2	...	1	...	1	2	2	1	6	1	20
Steam pipe, overheating of	...	...	...	1	...	...	...	...	...	..	...	...	1
Steam wagon, sparks from	...	..	...	...	...	...	...	...	...	1	...	...	1
Stove, overheating of ...	...	...	...	...	...	...	...	...	...	1	...	...	1
Stove, spirit upset ...	...	...	...	..	...	...	...	...	...	...	...	1	1
Unknown	3	1	...	...	1	...	1	9	5	2	6	13	41
Total ...	14	11	11	2	10	5	14	29	29	27	35	37	224

List of fires through which property to the extent of Rs. 2,000 and upwards was destroyed during the year 1913-14.

Date.	Locality.	Description of Property destroyed.	Estimated Value.
1913.			Rs.
2nd April	Cotton Green, Colaba	Cotton	49,000
18th „	Prince's Dock	Cotton, S. S. "Banca"	4,00,000
14th May	Shaik Memon Street	Druggist	4,000
17th „	Do. do.	Cloth Cap-dealer	9,400
2nd June	Coal Bunder, Mazagon	Coal	2,000
12th August	Lamington Road	Stables	2,040
15th „	Currey Road	Cotton Mill	2,500
18th „	Ghorupdeo Road	Hemp Godown	25,000
24th „	Hornby Road	Shops and Offices	25,625
8th October	Victoria Docks	Coal, S. S. "Aleppo"	5,000
21st „	Haines Road	Fireworks Godown	3,000
5th November	Lohar Street	Fancy Goods Shop	6,200
8th „	Tamarind Lane	Offices and Godown	2,77,500
14th „	Frere Road	Fancy Goods Shops	7,000
15th „	Lamington Road	Cotton Waste	2,000
18th „	Victoria Bunder Road	Cotton Press	50,500
21st „	Hornby Road	Mandap	10,000
24th „	Fergusson Road	Mill Machinery	4,000
28th „	Walton Road	Cotton	12,000
28th „	Shaik Memon Street	Cloth Market	5,00,000
9th December	Gunpowder Bunder	Hemp and Cotton	4,000
13th „	Suparibaugh Road	Cotton Mill	15,000
15th „	Ripon Road	Electrical Material	25,000
19th „	Marzban Road	Motor Car	3,000
21st „	Sandhurst Road	Oilman's stores	7,550
22nd „	Fergusson Road	Cotton Mill	8,000
22nd „	Ghorupdeo Road	Cotton Waste	3,000
29th „	Bombay Harbour	Stores, S. S. "Arcadia"	2,500
30th „	Mutton Street	Second-hand furniture mart	1,25,000
1914.			
16th January	Hornby Road	Electrical Engineers	60,000
28th „	Naigaum Cross Road	Cotton Mill	5,000
28th „	Janjikar Street	Scale Dealer	2,000
30th „	Abdul Rahiman Street	Hardware, etc.	3,520
2nd February	Girgaum Road	Paper Mill	3,000
3rd „	Coal Bunder, Mazagon	Coal	12,000
6th „	Bhuleshwar Road	Shops and Dwellings	56,800
6th „	Coal Bunder, Mazagon	Coal	20,000
8th „	Musjid Bunder Road	Box Dealers	3,360
9th „	Carroll Road	Cotton Mill	80,000
14th „	Coal Bunder, Mazagon	Coal	10,000
14th „	Victoria Bunder, Colaba	Cotton Press	4,00,000
17th „	Coal Bunder, Mazagon	Coal	5,000
20th „	Carroll Road	Cotton Mill	6,000

List of fires through which property to the extent of Rs. 2,000 and upwards was destroyed during the year 1913-1914.—*contd.*

Date.	Locality.	Description of Property destroyed.	Estimated Value.
1914			Rs.
25th February ...	Clive 1st Cross Lane, Mandvi ...	Hemp Godown	19,000
3rd March ...	Coal Bunder, Mazagon	Coal	8,600
4th „ ...	New Parbhadevi Road	Cotton Mill	20,000
20th „ ...	Haines Road	Do.	10,000
23rd „ ...	Arthur Bunder, Colaba	Cotton	40,00,000
24th „ ...	Chinch Bunder, 1st Road... ...	Shops and Dwellings	9,320
25th „ ...	Apollo Reclamation	Cotton	7,500
26th „ ...	Do. do.	Do.	40,000
30th „ ...	Do. do.	Do.	2,000
31st „ ...	Cotton Green, East	Do.	2,200

Summary of lives lost at fires during the year and of persons who received such injuries that death subsequently ensued.

Date.	Time.	Place.	Remarks.
21st November 1913 ...	1-7 P.M.	Panchyat Wadi, Bhuleshwar.	Chunilal Beharilal, aged 35 years, burned about face and body. Removed to Hospital and died.
24th November 1913 ...	10-47 A.M.	Fergusson Road ...	Diva Deoji, aged 55 years, severely burned about the body. Removed to Hospital and died.
29th November 1913 ...	9-54 A.M.	Popalwadi, Bhuleshwar.	Kalidas Jiwraj, aged 30 years, severely burned about the body. Removed to Hospital and died.
11th January 1914 ...	5-45 P.M.	Naigaum Cross Road, Dadar.	Nana Sakaram, aged about 35 years, severely burned about the body. Removed to Hospital and died.
6th February 1914 ...	3-50 A.M.	Bhuleshwar Road...	Pusharam Nanakram, aged 35, Megharaj Hariram, aged 25, Sagarmal Bansidhar, aged 28, Odet, aged 18, and a woman, name and age unknown, burned to death; Lakhdeoji Bridhichand, aged 50, Chajuram, aged 40, and a man, name and age unknown, killed by falling.
25th February 1914 ...	8-56 A.M.	1st Carpenter Street, Nall Bazar.	Gangabai, aged 20 years, severely burned about the body. Removed to Hospital and died.
25th March 1914 " ..	3-33 P.M.	Lady Jemsetji Road, Dadar.	Dharma Dattoo, aged about 4 years, burned to death.

Brief details of the most serious fires of the year :—

Date.	Time.	Place.	Business.	Extinguished by	Damage.	Estimated loss. Rs. a. p.
1913 April 18th.	8-54 P.M.	"M" Berth Prince's Dock.	Steam Ship.	2 Motor Steamers and private appliances.	A Steam ship of 3,794 tons register, about ¼ of contents (cotton) of No. 2 hold severely damaged by fire, rest of contents by heat, smoke and water, and contents of No. 1 hold (cotton) by water. Part of foredeck and ship's side slightly by heat.	4,00,000 0 0
Nov. 8th...	12-55 A.M.	Tamarind Lane, Fort.	General Agents.	5 Steamers, and 1 Motor pump.	A building of 4 floors, 110' × 90' (used as godowns, offices and dwellings), two upper floors and contents burned out, roof off and partly fallen down, lower portion of building and contents severely damaged by fire, heat, smoke and water, and a building of 2 floors 80' × 90' (adjoining), and a building of 3 floors, 80' × 80' (adjoining) top floors of both and contents slightly by heat, smoke and water and roofs by breakage	2,77,500 0 0
Nov. 18th..	8-30 P.M.	Victoria Bunder Road, Colaba.	Cotton Press.	3 Steamers and 2 Motor pumps.	A corrugated iron building, of one floor, 150' × 40', used as cotton and hemp godown, and contents, and a quantity of loose cotton and hemp stored on open ground severely damaged by fire, heat, smoke and water, and part of contents of 1st floor of a building of 2 floors (adjoining and communicating) used as press, slightly by water ...	70,000 0 0
Nov. 28th..	9-42 A.M.	Sk. Memon Street .	Cloth Market.	6 Steamers, 2 Motor pumps and 1 Hydrant.	A building of 1 and 2 floors comprising 8 shops covering an area of about 100' × 100' and contents nearly burned out, roof off and partly fallen down, a back building of 4 floors 30' × 20' (adjoining), used as godown and dwelling, and a middle building of 4 floors ditto, ditto, two upper floors of both and contents burned out and roofs off, lower part of buildings and contents severely by water	5,00,000 0 0
Dec. 30th..	10-4 P.M.	Mutton Street ...	Second-hand furniture Market.	5 Steamers and 4 Motor pumps.	Two ranges of corrugated iron sheds covering an area of 80' × 40', used as shops and contents burned out and fallen down. A building of 4 and 6 floors, 60' × 60' (adjoining) used as shops and dwelling, 4th and 5th floors and contents nearly burned out and roof off, lower part of building and contents severely damaged by fire, heat, smoke and water, and a building of 4 floors 50' × 40' ditto, ditto, a building of 6 floors 50' × 50', ditto, ditto, 2 upper floors of both and contents severely by fire and roofs off, lower part of buildings and contents by water. A building of 4 floors, 40' × 50' ditto, ditto, 2 upper floors and contents slightly by fire, lower part and contents by water, and top floor and contents of a building of 5 floors, 45' × 50', used as dwelling, by heat, smoke and water. All adjoining and communicating; the whole covering an area of about 150' × 150'	1,25,000 0 0

Brief details of the most serious fires of the year—*contd.*

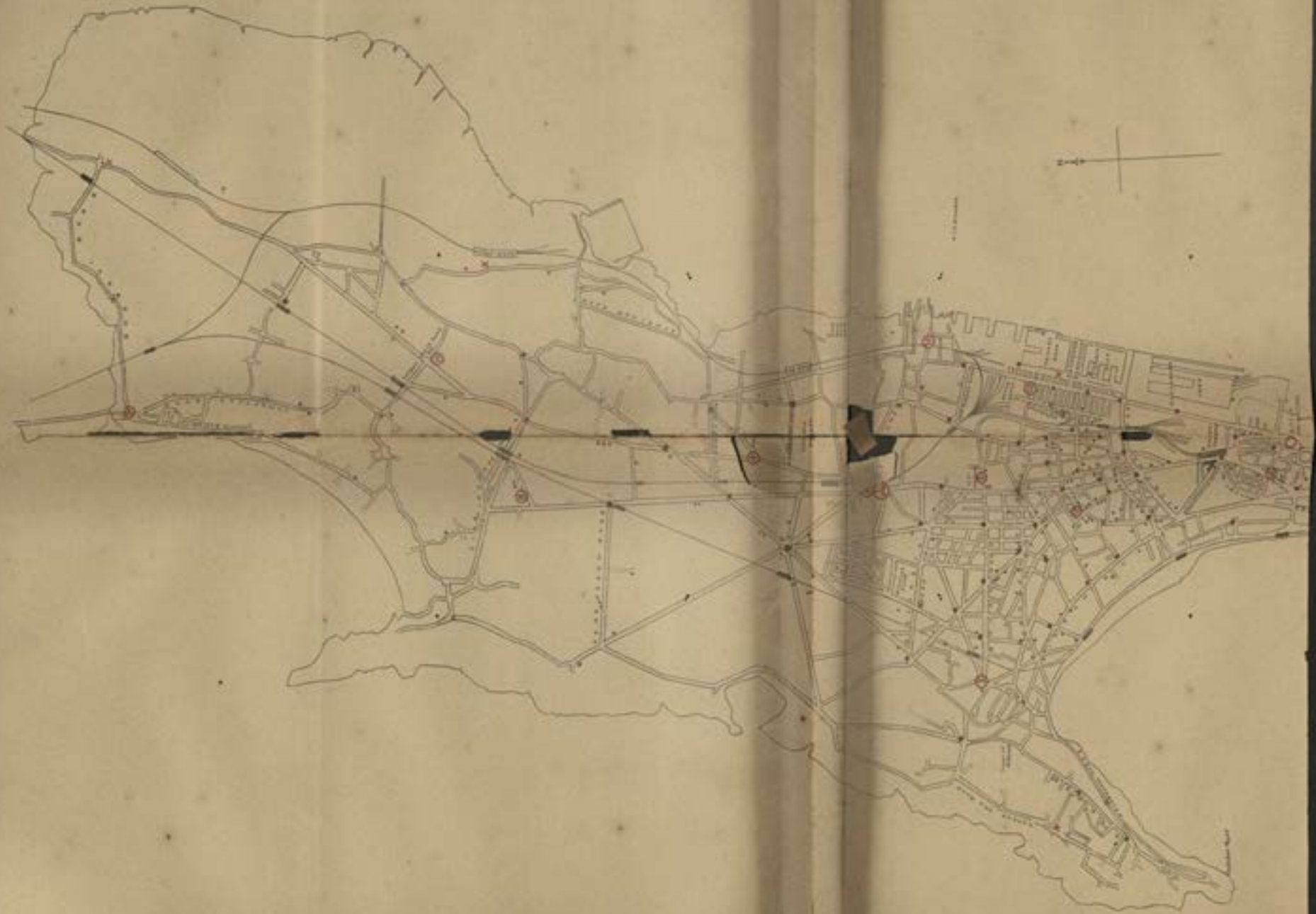
Date.	Time.	Place.	Business.	Extinguished by	Damage.	Estimated loss.
1914.						Rs. a. p.
Jan. 16th...	5-9 A. M.	Canada Buildings, Hornby Road, Fort.	Electric Engineers.	1 Steamer and 2 Hydrants.	A building of 5 floors 110′ × 50′ (used as showrooms, offices, stores and dwellings), about one-half of basement and contents severely damaged by fire; rest of ditto, and contents by heat, smoke and water; ground-floor and contents slightly by heat, smoke and breakage and upper portion and contents by smoke ...	80,000 0 0
Feb. 6th...	3-50 A. M.	Bhuleshwar Road...	Sweetmeat manufacturers.	5 Steamers and 2 Motor pumps.	A building of 6 floors, 35′ × 100′ (used as shops and dwellings), front staircase from ground to top floor burned away and fallen down and front part of building and contents severely damaged by fire and most part of roof off; rear portion and contents slightly by heat, smoke and water, and a building of 5 floors 15′ × 40′ (used as dwelling), windows and woodwork on west side and contents of room on top floor slightly by heat and smoke and roof of a building of 3 floors 20′ × 40′ ditto, ditto, (all adjoining) by breakage..	56,800 0 0
Feb. 9th...	2-21 P. M.	Carroll Road, Lower Parel.	Cotton Mill.	1 Motor pump and private appliances.	A building of 4 floors 100′ × 90′ (used as mill) 2nd floor used as mixing room and contents severely damaged by fire, heat, smoke and water. First and ground-floor used as carding room and contents by water	30,000 0 0
Feb. 14th...	11-31 P. M.	Victoria Bunder, Colaba.	Cotton Press.	6 Steamers and 3 Motor pumps.	A building of 1 and 2 floors 200′ × 90′ (used as cotton press, godown, offices and boiler-house) 1st floor and contents burned out, roof off and fallen down, Press, godowns and boiler-house on ground-floor and contents and about 1,000 bales of cotton stacked on open ground severely damaged by fire, heat, smoke and water..	4,00,000 0 0
March 23rd	3-35 A. M.	Arthur Bunder, Colaba.	Cotton Merchant.	7 Steamers, 3 Motor pumps and 2 Hydrants.	A building of one floor 150′ × 60′ (used as godown), and contents severely damaged by fire, roof off and most part fallen down, 10 stacks of cotton on open ground burned out, 5 ditto, severely damaged and 4 slightly by fire, heat, smoke and water and ground tiers of 11 stacks (surrounding) by water. The whole covering an area of about 1,500′ × 600′	40,00,000

Monthly Summary of Fires and Annual Losses for the period 1904-1905 to 1913-1914.

YEAR.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January	February.	March.	Total.	Estimated Loss.
														Rs.
1904-1905...	4	9	7	2	8	5	5	13	9	6	13	7	88	22,11,462
1905-1906 ...	5	5	4	10	5	8	7	13	10	5	9	27	108	15,45,126
1906-1907 ...	5	16	25	7	6	4	14	9	6	9	9	10	120	55,38,801
1907-1908 ...	12	10	7	4	1	6	6	13	10	11	13	4	102	33,36,274
1908-1909 ...	7	11	7	5	2	8	11	11	9	12	9	10	102	23,94,464
1909-1910 ...	9	13	8	7	6	4	9	5	7	10	17	9	109	15,05,557
1910-1911...	8	8	9	14	3	2	7	13	16	8	13	11	117	5,78,742
1911-1912 ...	12	8	4	7	8	12	14	7	13	11	11	17	124	23,04,705
1912-1913 ...	14	9	5	11	10	13	14	13	23	17	17	16	162	15,20,093
1913-1914 ...	14	11	11	2	10	5	14	29	29	27	35	37	224	64,75,696

Prosecutions for malicious interference of Fire Alarms during the year 1913-14:—

Date.	Nature of Offence.	Police Court and Magistrate.	Remarks.
15th October 1913.	Breaking the glass of Fire Alarm at Fort Street on 10th September 1913.	Esplanade Police Court, A. H. Aston, Esquire.	Shawaksha Cowasji, aged 14 years; sentenced to receive four stripes of the birch.
1st November 1913.	Breaking the glass of Fire Alarm at Chakla Street and giving false alarm of fire on the 1st November 1913.	.....	Khan Mahomed Fazal, aged 20 years, certified insane by the Police Surgeon and removed to asylum.
5th January 1914..	Breaking the glass of Fire Alarm at Cowasji Patel Tank on the 5th January 1914.	Maharbowdi Police Court, Honorary Magistrate.	Ahmed Esoof Haji, aged 35 years. Fined Rs. 5 for disorderly conduct.
15th January 1914.	Breaking the glass of Fire Alarm at Broach Street on 26th December 1913.	Mazagon Police Court, J. Khairaz, Esquire.	Bapsingh Appasingh, aged 27 years. Fined Rs. 15.
10th March 1914...	Breaking the glass of Fire Alarm at Nagdevi Street on the 9th March 1914.	Mazagon Police Court, Rao Bahadur C. H. Setalvad.	Abdul Rahiman Shaik Rahiman, aged 45 years, sentenced to one day's simple imprisonment.



Map of the
ISLAND OF BOMBAY

SCALE 2400 FEET TO AN INCH.

Fire Stations shown thus – ○
Fire Alarms do -- do – •
-do- -·- do- proposed thus – ×
Fires ..... do – •

L.—PUBLIC GARDENS.

REPORT OF THE SUPERINTENDENT OF MUNICIPAL GARDENS RECEIVED UNDER HIS NO. 666 OF 30TH MAY 1914.

SIR,

I have the honour to submit the Annual Report on the Administration of the Municipal Gardens under my charge for the year ended 31st March 1914.

2. The following gardens were maintained during the year under report :—

(*a*) Victoria Gardens.

(*b*) Elphinstone Circle Garden.

(*c*) Northbrook Garden.

(*d*) Malabar Hill Garden.

(*e*) Dick's Tank Garden.

(*f*) Falkland Road Garden.

(*g*) Sir Cowasji Jehangir Garden at Mahim.

(*h*) Municipal Office Garden.

(*i*) Esplanade Bandstand Green.

(*j*) Flora and Wellington Fountains and the Queen's Statue Gardens.

(*k*) Chowpaty Bandstand (temporary).

The Bazar Gate Garden was broken up in May 1913 for the purpose of relaying it out in accordance with the new design proposed for it.

3. The total number of persons who visited the Victoria Gardens during the year under report was 1,665,973 against 1,496,569 in the previous year, showing an increase of about a lakh and seventy thousand. This increase is partly accounted for by a larger number of open or slightly rainy days than usual, during the months of July, August and September, but the number registered shows a substantial increase in every month except in the months of June and November in which the numbers were less by about twenty-four and ten thousand respectively than in the previous year.

4. The difficulty of getting mallees or even ordinary coolies to keep up the required staff still continues. This difficulty is not confined to Bombay only but appears to be prevalent everywhere as the reports of almost all the other public gardens in India for the past few years contain the same wail about the extreme difficulty of obtaining not only trained mallees but even ordinary coolies and the extraordinary rise in the wages of mallees and coolies everywhere. Though every effort is being made to carry on the work as best as possible by means of ordinary coolies engaged from day to day, in place of mallees, even a sufficient number of coolies are not available for the greater part of the year on the salaries fixed in budget. This year the difficulty was increased by some reclamation works going on close by at Tank Bunder where very much higher wages were offered both to men and women coolies and hence for several months in the year work had to be carried on with nearly a quarter the number of the staff of mallees and sweeper women short. It is to be hoped that the increase of rupee one in the wages of the lower posts of mallees sanctioned in the Budget for 1914-1915 will make matters somewhat less difficult than before in this respect.

5. The difficulty of maintaining the garden in a proper condition has been further aggravated by the extreme shortage of water-supply, so that not only borders and beds of delicate plants but also hardy shrubs have suffered seriously, especially in the hot weather. In spite of these difficulties, however, every effort has been made not to allow of an appreciable falling off in the usual condition of the Gardens.

6. All the garden roads were, as usual, repaired, sandstoned, rolled and kept in good order throughout the year. Part of the grant for road repairs was utilized during the year in coal-tarring the road around the Bandstand in the garden and one of the principal main roads. The work however being not carried out satisfactorily did not prove as successful as anticipated, but it will be continued in the current year.

7. A further portion of the drainage scheme for storm-water in the garden was constructed at the end of the year. It is hoped that this drain will prevent the flooding of a portion of the North-east part of the garden to some extent.

8. Two more lawns were renovated during the year, though the work had to be postponed off and on and protracted over a long period on account of the deficiency of labour supply. The usual planting of new and rare trees and groups of shrubs in the shrubberies replacing old and unsuitable ones was also continued though not to that extent as could have been done if the full staff had been available.

9. Appendix A attached to this report contains the names of new plants obtained during the year under report from various places and successfully reared.

10. The band performances given at the Esplanade Bandstand every Wednesday and every alternate Saturday, except during the rainy season, as in the previous year, continued to be very popular.

11. The band performances given at Chowpaty once a fortnight, on Tuesdays, though much appreciated would be still more popular if the whole of the surrounding vacant area were properly levelled and improved and a sufficient number of lamps put up there. The twenty-five benches sanctioned for this Bandstand during the year under report and ordered to be made at the Municipal Workshops were not ready to be placed there up to the end of the year.

12. Band performances were given at the Victoria Gardens every Saturday, as in the previous year, alternately free and with admission fee respectively. In all eighteen performances with admission fee were given during the year, the total number of visitors on these 18 days being 26,862 against 26,669 in the previous year, and the fees realized being Rs. 2,736-2-6 against Rs. 2,829-8-0, averaging 1,492 visitors and Rs. 152 for each performance against 1,481 visitors and Rs. 157-3-1 in the previous year. The slight decrease in the fees in spite of an increase in the number of visitors was due to a larger number of children attending the performances during the year, children being charged at one quarter the fee charged for adults. Were it not that in the previous year three of these performances coincided with holidays, *viz.*, the Easter on Saturday, the 6th April 1912, New Moon on Saturday, the 12th October 1912 and the Divali on Saturday, the 9th November 1912, the figures for the year under report would have shown much better comparative results, as the remaining 15 performances in this year were attended by a greater number of visitors than in the past year.

13. Our acknowledgments are due to the Bombay Electric Supply and Tramways Company, Limited, for carrying the bandsmen free in reserved cars, as usual.

14. No grants were sanctioned during the year for the improvements of the garden or Zoo and hence no new cages could be constructed or any other improvements made. The renovation of the Cockatoo Cage alluded to in para. 22 of the last report was nearly completed at the end of the year.

15. That the elephant and camel rides still continue to be popular is shown by an increase in the number of persons taking rides and the fees realized during the year. The numbers for elephant rides were 7,372 adults and 13,122 children and the fees realized Rs. 1,370-9-0 as compared with 6,458 adults and 11,509 children and Rs. 1,196-7-0, respectively, in the previous year. Similarly for camel rides the numbers were 497 adults and 491 children and the fees realized Rs. 92-13-0 as compared with 336 adults and 329 children and Rs. 63-7-0 respectively, in the previous year.

16. A list of additions and casualties, &c., of animals during the year under report is appended at the end (Appendix B).

17. Amongst the animals which bred during the year were an Annubis Baboon and two Nicobar Pigeons, both for the first time in the Gardens. Seven Rheas were again successfully hatched out during May and June but owing to unfavourable climatic conditions in the rains and other causes such as Fowl Cholera, distension of the crop and injuries received from other birds, none survived. Two Llamas, two Four-horned Antelopes, 3 Nilgais, 5 Spotted Deers, 4 Indian Antelopes and two Java Sparrows were also born during the year.

18. The animals purchased during the year included a collection from the Zoological Gardens, Calcutta, containing among others a Malayan Tapir, a Brown Capuchin, a White-crowned Mangabey, two Military Macaws, two Magpie Pigeons, two Blood-breasted Pigeons, twelve Chinese Spotted Doves, a Red Jungle Fowl, two Summer Ducks, and six Garganey or Blue-winged Teals, all of which were new to our collection having never been exhibited in the Gardens before. Other important purchases during the year were a female Brown Bear, a Sooty Mangabey, two Campbell's Monkeys, two Crowned Cranes and the Amherst's, Elliot's, Swinhoe's and Versicolor Pheasants, all of them being ordered from Europe, and two Military Macaws, two Urraca Jays, and four Black-headed Conures purchased locally from one of the officers of an Austrian steamer who had brought them to Bombay for sale, the two latter of which being entirely new to our collection.

19. The exchange transactions of the year included a Black Swan and a Variegated Sheldrake, the latter being also a new specimen, from the Director of the Wellington Gardens, New Zealand, and a Ring-tailed Lemur from the State Gardens, Baroda.

20. As usual a number of animals were presented to the Gardens during the year for which our thanks are due to the donors. A complete list of donors is given in Appendix B, but special mention may be made here of an African Lion cub presented by His Excellency Lord Willingdon, a pair of Otters by Mrs. E. Holland, one Leopard by Mr. E. F. Neilson, one Uryal by Mr. H. A. Just and one Wart Hog from South Africa by Captain Praed. The Chief of Manavadar Khan Shri Fathedinkhanji and his consort the Begum Sahib Fatima Siddika made a very valuable present of a collection cqusisting of a fine Indian Gir Lioness, one very large specimen of a Leopard and three Wild Asses. Special thanks are due to all these donors for their valuable presents.

21. Our thanks are also due to the Agents of the G. I. P., the B. B. & C. I., the Bengal Nagpur, and Oudh and Rohilkhand Railway Companies for their continued favour in granting us free passes and concession rates for the carriage of animals and their attendants from different places on their lines.

22. The outbreak of Rinderpest amongst the deer mentioned in last year's report recurred this year also and precisely at the same time. Fortunately only two animals were attacked at first, *viz.*, a Beatrix Antelope and a Sambur. Proper precautions were at once taken and it was checked at once, no further attacks or deaths occurring subsequently. It is a pity that the rare and only specimen of the Beatrix Antelope presented last year by Lord Sydenham was thus lost. Sporadic cases of anthrax also occurred, as usual, but fortunately only two deaths occurred from this cause, *viz.*, a Persian Gazelle and a Tiger. Another serious occurrence during the year was the death of ten Antelopes and one Persian Gazelle by some stray pariah dog or some other similar animal which appeared to have chased and attacked the deers in their enclosures at night, the animals being found lying dead in the morning or dying subsequently from the shock of fright, exhaustion and injuries. Immediate measures were taken to prevent further mischief by keeping extra night watches and by using poisoned baits by which means three dogs were destroyed. As dogs still appear to enter the Gardens through the kutcha fence at the eastern boundary and through the bars of the iron railing on the Parel Road, the Executive Engineer has been requested to prepare estimates for a proper fence on the east boundary and for alterations in the railing on the Parel Road, to prevent access of dogs into the garden. The important casualties due to various causes besides the above mentioned ones were a Mongoose Lemur, a Spotted Deer, two Gazelles, a Gold Pheasant, a Swinhoe's Pheasant, a Crested Guinea Fowl, a Roseate Cockatoo, a Magpie Pigeon, two Wood Pigeons, two Sarus Cranes, two Demoiselle Cranes, a White-necked Crane, a Black-headed Ibis, four Comb Ducks and a Blue-winged Teal, from accidents and injuries done by other animals ; a Spotted Deer from difficult labour: a Black-tailed Wallaby from hernia: an Indian Gazelle and a Sloth Bear from septicæmia: a Ring-tailed Lemur and two Brahminy Ducks from Tape Worms: a Lesser Adjutant, an Amherst's Pheasant, a Comb Duck and three Rhea chicks from Fowl Cholera; one Siamese Kaleej from Filariasis: an Assam Gibbon, a Grivet Monkey, two Leopards, a Spotted Deer, a Four-horned Antelope and a White Stork from diseases of the heart: two Sloth Bears from dysentery : a Stump-tailed Monkey, a Malbrouk Monkey, a Ruffed Lemur, a Leopard and a Sambur Fawn from pneumonia and congestion of lungs ; an Arabian Baboon, a Magpie Pigeon, a Blue Winged Teal, a Brahminy Duck and a Mallard from diseases of the liver; and two Indian Gazelles, a Barasingha Deer, one Llama, one Red-necked Wallaby, one Grey Jungle Fowl, one Amherst's Pheasant, one Wattled Currasow and three Crested Bronze-winged Pigeons from enteritis and congestion of intestines.

23. Major W. Glen Liston, Director, Bombay Bacteriological Laboratory, has been kind enough as usual, to render every possible assistance to the Gardens when required in any way and for making *Post Mortem* examinations at his Laboratory of animals that died in the Gardens, to ascertain the cause of death, and our warmest acknowledgments are due to him for it. Our thanks are also due to the Principal of the Bombay Veterinary College for giving occasional assistance when necessary.

24. The Flora Fountain was laid out with lawns and flower beds, &c., and planted with suitable plants and now presents a charming appearance. Beds of crotons, begonias and flowering annuals were also made on the green surrounding the Queen's Statue. Both these improvements have been highly appreciated by and have received encomiums from the public.

25. The Northbrook and the Sir Cowasji Jehangir Garden at Mahim continue to be occupied with health camps.

26. The table below shows the Budget grants and the actual expenditure of the gardens maintained by the Municipality during the year under report:—

Name of Garden.	Budget Grants.			Expenditure.			
	Rs.	a.	p.	Rs.	a.	p.	
				73,391	4	3	
				23,929	11	8	
(*a*) Victoria Gardens	99,759	13	6	97,320	15	11	Amount to be paid for liabilities incurred during the year.
				6,653	3	8	
Do. New Works ...	14.172	0	9	6,590	6	8	Do. do.
				13,243	10	4	
				1,217	12	5	
(*b*) Elphinstone Circle Garden ...				182	15	8	Do. do.
	1,729	11	2	1,400	12	1	
				1,191	4	0	
				388	4	6	Do. do.
(*c*) Northbrook Garden	1,725	6	11	1,579	8	6	
				616	5	9	
				49	0	0	Do. do.
(*d*) Malabar Hill Garden ...	1,285	13	1	665	5	9	
				156	4	0	
				30	7	6	Do. do.
(*e*) Dick's Tank Garden... ...	198	11	6	186	11	6	
				202	14	3	
				162	15	0	Do. do.
(*f*) Falkland Road Garden ...	399	13	7	365	13	3	
				195	14	9	
(*g*) Sir Cawasji Jehangir Garden.	314	0	0	17	5	6	Do. do.
				213	4	3	
				198	1	11	
				24	4	2	Do. do.
(*h*) Bazar Gate Garden	237	8	3	222	6	1	
				5,159	1	7	
				822	11	6	Do. do.
(*i*) Esplanade Bandstand Green...	6,448	9	6	5,981	13	1	
				1,168	4	8	
(*j*) Flora and Wellington Fountains and the Queen's Statue	1,705	8	0	355	6	2	Do. do.
				1,523	10	10	
				1,208	0	11	
(*k*) Chowpaty Bandstand ...	2,000	0	0	91	3	1	Do. do.
				1,299	4	0	
Total Rs. ...	1,29,977	0	3	1,20,003	3	7	

I have the honour to be,

Sir,

Your most obedient servant,

C. D. MAHALUXMIVALA,

Superintendent, Municipal Gardens.

APPENDIX A.

LIST OF PLANTS ADDED TO THE COLLECTION IN 1913-1914.

Names of Plants.	From whom received.
Spathodia Nilotica	Presented by Mr. A. M. D'Cruz, Bombay.
Nymphæa stellata	In exchange from the Economic Botanist to the Government of Bombay, Kirkee (Poona).
Nymphæa hybrid, yellow	Purchased from the Superintendent, Agri-Horticultural Society of Madras, Tynampet.
Seeds.	
Acacia ferruginea	Received from the Superintendent, Government Horticultural Gardens, Lucknow.
Bauhinia Vahlii	
Pithecolobium bigeminum	
Cassia alba	
Terminalia Mullerii	
Cupressus Benthami	Presented by the Superintendent, State Gardens, Baroda.
,, Knightiana	
,, Lawsoniana var. glauca pendula	
,, Lawsonia pendula	
Lawsonia var. argentia	
,, Lawsonia pyramidalis	
,, majestica	
,, macrocarpa	
,, Nootkatensis var gracilis	
,, torulosa	
,, sempervirens, pyramidalis	
Thuya gigantea var. Lobbi	
,, occidentalis	
,, orientalis	
,, orientalis Fortunii	
,, orientalis var. pyramidalis	
,, orientalis var. compacta...	
,, occidentalis asplenifolia	
Oreodoxa oleracea	Presented by the Director, Agricultural Botanic Garden, Buitenzorg (Java).
Sabal Adansoni	
Lupinus paniculata	Presented by Mr. M. Buijsman, Lawang, East Java.
Acacia Confusa	
Ipomaea setosa	
Acacia Cuerno de Vaca	Presented by Messrs. Morris & Snow Seeds Co., California, America.
Sterculia companulata	Purchased.

C. D. MAHALUXMIWALA,

Superintendent, Municipal Gardens.

APPENDIX **B**.

List of increase and decrease of animals in the Victoria Gardens during 1913-14.

A.—The following were added to the collection during the year under report :—

PRESENTED.

1	Lion Cub	Presented by H. E. Lord Willingdon.
1	Indian Antelope	Mr. T. S Dowson.
2	Common Indian Otters	Mrs. E. Holland.
1	Four-horned Antelope	Mr. C. L. Parsons.
2	Indian Antelopes	Muncherji F. Khan.
1	Indian Sloth Bear	A. H. A. Simcox, I.C.S.
1	Malbrouk Monkey	Pirojsha S. Davar.
1	Scaly Ant eater	B. D. Richards.
1	Leopard	E. F. Neilson.
1	Chattering Lory	S. C. Dadysett.
1	Spotted Deer	F. S. Madon.
1	Four-horned Antelope	Dr. D. A Turkhud.
1	Uryal	Mr. H. A. Just.
1	Bear Cub	A. G. Scott.
1	Indian Desert Fox	Ganpat A. Kerker.
1	Indian Fox	Priestley.
1	Spotted Deer	F. P. Talyarkhan.
2	Persian Gazelles	Master Meher B. M. Dalal.
1	Persian Gazelle	Mr. Whitehead.
1	Indian Antelope	H. W. Ball
1	Ring-necked Parrot	Sorabji A. M. Irani.
1	White-crested Cockatoo	Sorabji A. M. Irani.
1	Indian Lioness	Begum Sahib Fatima Siddika of Manavadar.
1	Leopard	Khan Shri Fatehdinkhanji of Manavadar.
1	Indian Antelope	Mr. Nariman N. Kothavala.
3	Wild Asses	Khan Shri Fatehdinkhanji of Manavadar.
1	Wart Hog	Captain Praed.
1	Nilgai	G. N. Thompson.
1	Leopard Cub	Mr. A. Zallinger.
1	Leopard	R. J. Tata.
1	Palm Civet	Maneksha M. Bardi.
1	Sykes' Monkey	Liladhar Purshotam.

BORN IN THE GARDENS.

4	Indian Antelopes.
5	Spotted Deers.
2	Four-horned Antelopes.
3	Nilgais.
1	Annubis Baboon.
2	Nicobar Pigeons.
2	Java Sparrows.
2	Llamas.
7	Rheas.

PURCHASED.

1	Brown Bear.
1	Scoty Mangabey.
2	Campbell's Monkeys.
2	Crowned Cranes.
2	Amherst's Pheasants.
2	Reeve's Pheasants.
2	Black-backed Kalij.
1	Grivet Monkey
1	Stump-tailed Monkey.
1	Malayan Tapir.
2	Black-headed Ibis.
2	Magpie Pigeons.
3	Pintail Ducks.
2	Lesser Whistling Teals.
5	Nukta or Comb Ducks.
2	Purple Coots.
1	White-crowned Mangabey.
1	Brown Capuchin
2	Blood-breasted Pigeons.
2	Wood Pigeons.
6	Californian Quails.
2	Nicobar Pigeons.
1	Blue and Yellow Macaw.
4	Military Macaws
2	Siamese Kalij.
2	Red Jungle Fowls.
3	Versicolar Pheasants.
2	Summer Ducks.
2	Baikal Teals.
6	Garganey or Blue-winged Teals.
2	Black necked Storks.
1	Assam Gibbon.
1	Black necked Swan.
1	Lesser Adjutant.
6	Red-crested Cardinals.
2	Samburs.
4	Red headed Cardinals.
4	Black-headed Conures.
2	Urraca Jays
2	Swinhoe's Pheasants.
2	Elliot's Pheasants.
12	Spotted Doves.

IN EXCHANGE.

1 Ring-tailed Lemur	From the State Gardens, Baroda.
2 Black Swans	From the Curator, Zoological Gardens, Wellington, New South Wales.
2 Variegated Sheldrakes	

B.—The following animals died during the year under report :—

1 Ruffed Lemur.
1 Stump-tailed Monkey.
1 Crab-eating Macaque.
2 Campbell's Monkeys.
1 Arabian Baboon.
1 Malbrouk Monkey.
1 Mongoose Lemur.
1 Ring-tailed Lemur.
1 Grivet Monkey.
1 Annubis Monkey.
1 Assam Gibbon.
5 Leopards and Cubs.
1 Ocelot.
2 Indian Civets.
5 Sloth Bears.
1 Ant-eater.
5 Indian Gazelles.
3 Spotted Deer.
3 Samburs.
18 Indian Antelopes.
1 Barasingha Deer.
1 Llama.
5 Persian Gazelles.
1 Four-horned Antelope.
1 Beatrix Antelope.
1 Red-necked Wallaby.
1 Black-tailed Wallaby
1 Urraca Jay.
1 Grey-breasted Parrot.
1 Roseate Cockatoo.
1 Leadbeater's Cockatoo.
1 Slender-billed Cockatoo.
2 Magpie Pigeons.
2 Wood Pigeons.
1 Black-headed Ibis.
2 Sarus Cranes.
2 Demoiselle Cranes.
1 White-necked Crane.
4 Nukta or Comb Ducks.
2 Mallards.
4 Brahminy Ducks.
1 Lesser Adjutant.
1 White Swan
1 Black-necked Swan.
2 Purple Coots.
2 Garganey or blue-winged Teals.
2 Widgeons.
1 White Stork.
2 Amherst's Pheasants.
2 Reeve's Pheasants.
1 Gold Pheasant.
1 Swinhoe's Pheasant.
1 Siamese Kalij.
1 Black-backed Kalij.
1 Wattled Currasow.
1 Grey Jungle Fowl.

C. D. MAHALUXMIWALA,
Superintendent, Municipal Gardens.

M—VICTORIA AND ALBERT MUSEUM.

REPORT OF THE CURATOR AND SECRETARY, VICTORIA AND ALBERT MUSEUM, RECEIVED UNDER HIS No. 69, DATED 16TH OF MAY 1914.

SIR,

I have the honour to submit the following Annual Report of the Victoria and Albert Museum for the year ending 31st March 1914.

2. During the year under report, I was on leave from the 15th of April to the 14th of November last, when Mr. J. Nelson Fraser, M. A., Principal, Training College, Bombay, was appointed to act for me. Mr. Fraser resigned on the 8th of October last, when Mr. E. R. Fern, Acting Vice-Principal of Sir J. J. School of Art, held the appointment till my return.

3. The following table gives the comparative attendance of visitors tc the Museum during the years 1911-1912, 1912-1913 and 1913-1914.

Year.	No. of days the Museum was open.	No. of visitors in the year.	Daily average.
1911-1912	313	824,590	2,635
1912-1913	313	822,577	2,628
1913-1914	313	832,641	2,660

It will be seen from the above table that the number of visitors during the year under report is higher than that for the year 1911-1912. The figures for that year showed a large increase over previous years; this increase was due to the crowds visiting the City on account of the Royal Visit. The past year may be considered a normal one, and, it is therefore satisfactory to be able to report that the number of visitors has now exceeded that of a special year, a fact which shows that the Museum has not only maintained but continues to increase in popularity.

4. A sum of Rs. 5,000 was sanctioned by the Commissioner to provide for the cost of purchasing new show cases to replace the old ones, which had been condemned as useless and out-of-date. Eleven new cases were purchased for the different sections of the Museum. When all these have been received and placed in the Museum, they will enable the specimens to be exhibited in a more attractive and instructive manner.

General Equipment.

5. (*a*) The work of identifying, labelling and arranging the collection of shells was completed within the course of the past year. In all about eight hundred and fifty different specimens of shells were identified, and the work has been done to my satisfaction.

Natural History.

(*b*) Six cases containing specimens of Fish-eating Birds were renovated and re-labelled. Small and neatly printed labels displaced the clumsy hand-written labels, and were arranged so as not to obstruct the view of the exhibits.

A descriptive pamphlet dealing with the habitat, habits, etc., of these birds, is in course of preparation.

(*c*) The case containing the specimens of Pheasants was too small for the collection. These were, therefore, removed and re-arranged into a larger one and some of the specimens that were found to be damaged were replaced by new ones prepared by the Third Assistant in the Museum.

(*d*) The case containing exhibits of Corals was thoroughly overhauled. Each specimen was re-identified and provided with a printed label. In order the better to illustrate the subject, photographs of Coral beds growing in the vicinity of the Islands of New Hebrides were procured from the Rev. J. H. Laurie of Sydney and have been put in the case. These show the different varieties of Corals in different stages of growth.

A small descriptive pamphlet containing an account of Corals and their growth is ready, and when printed will be placed in the case.

(*e*) A case illustrating the principal varieties of the Poisonous Snakes of India was set up. Carefully prepared models in clay were made and painted in natural colours. These have been placed in surroundings in which the snakes are likely to be met with. The following are the varieties exhibited:—The Naga, the Bungarus, the Callophis, the Daboia, the Echiscarinata, the Trimerisuri and the Halys.

A descriptive pamphlet containing an account of their classification, distribution and their peculiarities has been prepared..

(*f*) The background cloth of the room containing specimens of the Indian Crocodile was repainted and extended to the sides to produce a better scenic effect and the details of rock and water were re-arranged and renovated.

(*g*) Two skins of Bengal Tigers have been sent to London to the firm of Messrs. E. Gerrard and Son, Taxidermists, to be mounted and set up. These, when received, will be set up and exhibited in a large show case now waiting to receive them. The surrounding details of rock, trees and grass are now being prepared.

(*h*) The following carcasses of animals that died in the Garden were received from the Superintendent.

One Gold Pheasant, one Amhersts Pheasant, two Lamas, one Young Spotted Deer, one Indian Antelope, three Young Rhea, two Nakta or Comb Ducks, two Leopards, one Bengal Tiger, one Lemur, one Campbell's Monkey, one Baboon, one Garganany Teal, one White Stork, one Gibbon, one Blue Winged Teal, one Wood Pigeon, one Common Maina and one White-Throated Laughing Thrush.

Archæology.

6. The specimens in this section have all been rearranged, and a descriptive catalogue of the entire collection has been prepared.

Six copper coins found at Sarangpur in the State of Dewas (Junior) were presented by the Dewan to His Highness the Raja of Dewas.

Old Bombay Room.

Work in connection with the preparation of the Old Bombay Room progressed satisfactorily, but owing to the delay in the delivery of the full number of photographs of Old Bombay by Mr. Claridge, the room remains closed to the public. Nearly half the number of photographs has been received, and these are now framed and hung up on the walls.

The two Relief Maps of the Island of Bombay in 1666 and 1914, respectively, have been completed and the models placed in the new cases prepared for them. A large scale map of the Town and Island of Bombay has also been framed and put up in position.

The Commissioner was pleased, on my recommendation, to sanction the purchase of a set of forty-five photographs of the Governors of Bombay beginning from Humphrey Cook to His Excellency Lord Sydenham. The photographs will be purchased from Messrs. Bourne and Shephard, who have also undertaken to frame these in a suitable manner. The cost will be Rs. 945.

A short descriptive account of the history of Bombay is in course of preparation.

Industrial Section.

7. The removal of old cases enabled me to complete the arrangement of cases and the exhibits in this section of the Museum. The whole of the eastern gallery on the floor of the Museum is set apart for this section.

The following specimens were purchased during the year :—

(*a*) A set of four Silver pots of Cutch workmanship.

(*b*) A few specimens of Copper and Brass vessels, such as Lotas, Tambyas, and Dishes. Specimens of Repousse Work on Copper and Brass and also of Etching on metal prepared at Sir J. J. School of Art. These show the different processes by which the articles in the case are manufactured.

(*c*) Two carved Sandalwood panels, one showing "Jungle Scenery" and the other "Gersoppa Falls" were purchased from the carvers at Kumpta, North Kanara, at a cost of Rs. 300.

(*d*) A carved cocoanut bowl was purchased at a cost of Rs. 100.

(*e*) Three Persian tiles, one of which bears the date 607 A. H., were purchased for the Indian Pottery case.

(*f*) A few fishing nets were purchased and added to the Collection of Nets used by Fishermen in Bombay and its vicinity. A short descriptive account of the different kinds of Nets and the manner in which they are used has been prepared.

(*g*) Garments used by Cutch Muhammadans and a piece of tapestry from Persia have been purchased for the collection of woven Fabrics and Embroidery.

Agricultural Case.

A case containing a full collection of implements used in agriculture was prepared. The specimens include ploughs, levellers and clod-crushers, harrows, scarifiers, bullock-hoes, seed-drills and hand-implements, such as spades, sickles, axes, bill-hooks, winnowing sieves and scoops, etc. Models of different kinds of water-lifts, such as the Persian Wheel, the Scoop Lift, the Mohoté and the Lever Lift have been prepared in clay and will be shortly exhibited.

Ethnological Models.

The following new models have been added. Two models of Bhadbungas (Dealers in parched grain), two models of Ivory Carvers, two models of Workers in Glass. In addition, models showing some of the processes in the manufacture of copper and brass articles have been prepared and exhibited in the case containing the copper and brass articles. Similarly, models showing the processes of manufacturing Indian Lacware have been prepared and will be exhibited in the Lacware case.

A set-of eleven clay models showing how some of the different Indian Musical Instruments are played has been prepared for inclusion in a case to contain a collection of Instruments used in India.

Geology.

8. On receipt of the new cases constructed for this section, the specimens of Fossil and Prehistoric Stone Implements were arranged and labelled. The two hundred and eighteen specimens of Fossils have been arranged in their order and embrace the chief periods of fossilisation.

A complete catalogue of the entire Geological Collection, including minerals, clays, fossils and stone implements, has been written and is ready to be printed.

Photography

9. The chief work done in this sections comprised the following :—

Photographs showing how the different fishing nets are used, were taken at Danda, a fishing village in the Island of Salsette. These are now being exhibited with the collection of Nets already mentioned.

Office and Library.

10. The usual lists of specimens, books and dead stock were sent to the Chief Accountant.

The work of printing labels for the different sections of the Musuem was continued throughout the year. In all about four thousand one hundred and fifty copies of labels for the different specimens were printed, in addition to a few that were required for the Old Bombay Room.

The following books were purchased during year for the Museum Library :—

History of Indian Shipping.
Life in Bombay.
Coate's "Old country trades."
Customs of the World.
Genera Insectorum, Parts 131-143.
Solvyn's "Les Hindus."
Fur-Bearing Animals.
Asiatic Journals, Vol 2 to 31.
The Mineral Kingdom.

Progress of the Museum.

11. The progress of the Museum as a whole has been maintained, but as the Curator was on leave for seven months in 1913, and Mr. Nelson Fraser who acted for him, had no previous experience in such work, some of the schemes for improving the Museum had to be postponed until the Curator's return. The chief of these was the collection of materials and their arrangement for a Pictorial History of the City of Bombay. Two maps in relief showing Bombay in 1666 and in 1914 have been set up, while about twenty prints and thirty photographs from reprints have been framed and hung on the walls of the room set aside for this collection. Photographs of pictures of successive Governors of Bombay have been ordered, and about forty more photographs of prints of Naval, Military and other Officers, as well as of private citizens connected with the history of Bombay, and ancient buildings of the City will shortly be exhibited. The Curator is in correspondence with several dealers in prints in England with a view to procuring more historical and topographical engravings of Bombay and Western India. This collection can only be considered as the commencement of a collection that should develope into one of great value and interest to the Citizens of Bombay as well as to visitors.

The Curator has pleasure in reporting that the staff under him has worked well during the past year, special credit being due to Mr. Pai, the Assistant Curator.

I have the honour to be,

Sir,

Your most obedient servant,

CECIL L. BURNS,

Curator and Secretary.

No. 2260 of 1914-15.

BOMBAY, 1st *June* 1914.

FROM

A. G. CHRISTIANSEN, ESQ.,
M.S.E., A.M.I.M.E.,
Storekeeper, Municipality.

To

THE MUNICIPAL COMMISSIONER
FOR THE CITY OF BOMBAY.

SIR,

I have the honour to submit the following report of administration of my Department for the official year 1913-14.

2. The unprotected state of the yards of the Central Stores and at the Bellasis Bridge Pipe Depôt, referred to in the past, still continues. A temporary barbed wire fencing has been however erected to the east side of the compound at the Depôt.

3. During the year the yard of the B. B. Pipe Depôt was leased for cutting grass, cultivation and drying of cowdung cakes at Rs. 550, that being the highest bid offered at the auction.

4. Details showing the Annual and Special Contracts entered into during the year of important quotations called for during the year and the value of stores received and issued during the year, together with the opening and closing balances, are given in the Appendix A to D, attached hereto.

5. From Appendix D, it will be seen that, compared with the closing balance on 31st March 1913, there is an increase of Rs. 2,145-11-4 in the value of serviceable new and second-hand stores in hand on 31st March 1914. The total increases aggregated Rs. 56,505-2-7, of which Rs. 35,971-13-1 were under meters and meter fittings, due principally to Kennedy and Frost Meters of sizes purchased during the year not being used before the close of the year. Against this increase there were decreases aggregating Rs. 54,359-7-3, of which Rs. 48,404-3-5 were under water special stores, owing to pipes and castings purchased in the previous year having been used up on works in the year under review as anticipated in the last report.

6. The value of surplus and obsolete stores on 31st March 1914 was less by Rs. 18,107-4-1 as compared with that of the previous years, this decrease being due especially to the disposal by public auction of the special drainage stores of the aggregate book-value of Rs. 15,401-2-2.

7. The decrease in the value of stores on lines in charge of the different Inspectors of the Water Works is only Rs. 4,672-0-2 as compared with that of the last year.

8. During the year the sale of the special drainage stores of the value of Rs. 22,088-2-9 against Rs. 22,805-13-0 referred to in the last report, was effected at Rs. 3,286-11-9.

9. The annual verification of the stores in charge of this Department by an outsider was entrusted to Mr. K. R. Vacha, who commenced work in December 1913. The verification is in progress at the time of writing this report.

10. Mr. Simkins was appointed in May 1913 to verify stores on lines in charge of the Water Department, but no satisfactory progress seems to have yet been done and the matter is under reference with the Commissioner. In view of the appointment of Mr. Simkins to verify the stores on the lines within and outside the limits of Bombay, it was not considered necessary to depute the Assistant Storekeeper during the cold season of 1913-14 to examine and report on the condition of the stores on the line, as laid down in the *Addendum* to clause 8 of the Stores Manual, sanctioned under Standing Committee's Resolution No. 5075, dated 16th November 1910.

11. The work of preparing a vocabulary of stores has been in the hands of Mr. Simkins since 13th May 1910.

12. The question of purchasing standard samples has been in abeyance, as the sample room is not ready.

13. I was in charge of the Department throughout the year.

I have the honour to be,
Sir,
Your most obedient servant,
A. G. CHRISTIANSEN, M.S.E., A.M.I.M.E.,
Storekeeper.

APPENDIX A.

Annual Contracts during 1913-14.

Schedule No.	Name of Articles.	Names of Contractors.
1	Hardware Tools only	Messrs. Hasanalli Adamji & Co.
2	Hardware other than Tools	„ „ „
3	Ship Chandlers' Stores	„ „ „
4	Brushes, paint, oil and paint, &c.	„ „ „
5	Crockery, Lampware, Glassware	„ „ „
6	Electric goods...	Messrs. Turner Hoare & Co.
7	Leather goods...	„ Hasanali Adamji & Co.
8	Belting Belata...	„ John Fleming & Co.
9	Rubber goods	„ Hasanali Adamji & Co.
10	Metals, Brass, Copper, &c.	„ „ „
11	Iron and Steel Bars and Plates	„ Mulji Haridas & Co.
12	Iron	„ Hasanali Adamji & Co.
13	Steel	„ „ „
14	Cutlery	„ „ „
15	Axes, Pick, Spades, Shovel, &c.	„ „ „
16	Hoes (Powras) Europe	„ „ „
17	Caps and Coats	„ Bhawoo Kashinath & Co.
18	Harness and Saddlery	„ Hasanali Adamji & Co.
19	Miscellaneous Articles	„ „ „
20	Canvas and Hose Canvas	„ „ „
21	Canvas Hose, 2½", Europe, special quality ...	„ Turner Hoare & Co.
22	Pots and Pans, earthen	„ Hasanali Adamji & Co.
23	Oils and Grease	The Vacuum Oil Company.
24	Oil, Castor and Sweet	Messrs. Manji Hirjee & Co.
25	Oil, Cocoanut	„ Kanji Damji & Co.
26	Oils, Cylinder, Mineral and Shafting ...	The Vacuum Oil Company.
27	Oil, Kerosine, 125°	„ Standard Oil Company.
	„ „ 150° and Petrol Shell Brand...	„ Asiatic Petroleum Company.
28	Oil, Linseed and Spirit of Turpentine ...	Messrs. Wilkinson Heywood & Clerk, Ltd.
29	Waste, Cotton...	„ Saloman Brothers.
30	Buckets, galvanized	„ Bhawoo Kasinath & Co.
31	Chain, Iron	„ D. R. Umrigar, Sons & Co.
32	Firewood and Charcoal	„ Bhawoo Kashinath & Co.
33	Salt, Soap and Soda	„ Hasanali Adamji & Co.
34	Testers, Smoke	„ „ „
35	Shoes, Nails and Washers	„ „ „
36	Nails and Screws, Iron	„ „ „
37	Paints	„ Turner Morrison & Co.
38	Paste and Shellac, Bengal, best	„ Hasanali Adamji & Co.
39	Dammer and Tar Coal	„ „ „
40	Files	„ D. R. Umrigar, Sons & Co.
41	Tarpaulin, Canvas	„ Hasanali Adamji & Co.
42	Bolts and Nuts, Iron	„ „ „
43	Nuts, Rivets and Washers, Iron	„ „ „
44	Packings...	„ „ „
45		
46	Shafts, wooden, Bhendy for (Picks and Powras)	„ Bhawoo Kashinath & Co
47	Tyres and Tubes for Motors	„ Dunlop Tyre Company.
48	Plumbers' Stores, &c.	„ Hasanalli Adamji & Co.
49	Valves and Balls for Valves	„ „ „
50	Baskets and Cane for Baskets	„ Bhawoo Kashinath & Co.
51	Lead, Pig	„ Hasanalli Adamji & Co.
52	Water-proof Umbrellas	„ Bhawoo Kashinath & Co.
53	Cumblees, Woollen	„ „ „
54	Cloth, Dungry...	„ Hasanalli Adamji & Co.

APPENDIX **A**—*concluded.*

Schedule No.	Names of Articles.	Names of Contractors.
55	Line Coir	Messrs. Bhawoo Kashinath & Co.
56	Rope, Coir and Rubber Hand Coir	,, ,, ,,
57	Rope, Cotton and Line Log, Country ...	,, Hasanalli Adamji & Co.
58	Rope, Hemp, old, for Torch Light	,, Mahomedally Abdul Kayum & Co.
59	Rope, Manilla, best	,, Hasanalli Adamji & Co.
60	Yarn, Spun and Yarn Hemp	,, ,, ,,
61	Nose, Strings and Reins	,, ,, ,,
62	Iron Castings	,, Garlick & Co.
63	Timber	,, Abdul Rahiman Abdulla Jeewa & Co.
64	Benteak and Calicut logs	,, Haji Ismail Haji Isac & Co.
65	Clothing to different Municipal Hospitals ...	,, H. Bhikaji & Co.
66	Clothing to Peons and others	,, Bhawoo Kashinath & Co.

A. G. CHRISTIANSEN, M.S.E., A.M.I.M.E.,
Storekeeper.

APPENDIX **B.**

LIST OF SPECIAL CONTRACTS ENTERED INTO DURING 1913-14.

No.	Names of Articles.	Names of Contractors.	Amount. Rs.	a.	p.
1	Cement, Portland	Messrs. L. & F. Barraclough & Co.	21,300	0	0
2	Copper Wire Screening Gauze...	Messrs. Turner Hoare & Co. ...	520	0	0
3	3", 5" & 6" C. I. Pipes, Special Castings, &c.	The Universal Agency Co. ...	7,431	9	1
4	Izal powder and Izal fluid ...	Messrs. Thomson & Taylor ...	15,000	0	0
5	Sulphur, Acid Hydrochloric and Perchloride of Mercury ...	,, Wright & Co.	2,280	0	0
6	Merryweather "Dub Sub" Rubber lined Hose	,, Balmer Lawrie & Co. ...	936	0	0
7	Stoneware pipes, &c.	The Universal Agency Co. ...	956	4	0
8	Zondo Fluid	Messrs. W. Crowder & Co. ...	1,437	8	0
9	Pesterine...	The Asiatic Petroleum Co., Ltd.	20,500	0	0
10	Brad Valve Faces	Messrs. W. H. Brady & Co. ...	2,937	8	0
11	Washington Pearl Lamps ...	A. Mahler	558	0	0
12	Cast Steel Valves and Hinge Blocks	Messrs. John Fleming & Co. ...	1,600	0	0
13	Portable double Diaphragm hand pumps	,, ,, ,, ,, ...	915	0	0

APPENDIX B—*concluded.*

No.	Names of Articles.	Names of Contractors.	Amount.		
			Rs.	a.	p.
14	Adam's Patent Conical Manhole frames and covers	Messrs. Marsland Price & Co. ...	4,450	0	0
15	Boots and Woollen putties ...	,, Hasanalli Adamji & Co....	506	14	0
16	Meter Fittings	,, John Fleming & Co. ...	999	3	2
17	Frosts, Patent Positive Water Meters	,, Garlick & Co.	68,735	0	0
18	14" & 6" C. I. Pipes and Special Castings	,, Turner Hoare & Co. ...	22,624	8	6
19	Hydrant Castings	,, ,, ,, ,, ...	3,780	0	0
20	Wastenot self-closing galvanized Iron Taps	,, Macbeth Brothers & Co...	2,141	0	0
21	Cast Steel Naves and Axles ...	,, John Fleming & Co. ...	5,055	1	0
22	Galvanized Iron Water Pipes, fittings, &c.	,, Ewart Latham & Co. ...	19,026	3	0
23	9" & 5" C. I. Pipes and Special Castings, &c.	,, Macbeth Brothers & Co.	2,837	10	7
24	150 Tons of Pig Lead	,, Ewart Latham & Co. ...	51,224	3	6
25	6" S. W. Pipes	The Universal Agency Co. ...	1,932	4	8
26	Water Meter Fittings	Messrs. Turner Hoare & Co. ...	3,684	0	0
27	Galvanized Vent Shafts and Head Pieces	Mahomedalli Essabhoy & Co. ...	1,117	8	0
28	W. I. Galvanized Pipes and fittings	Abashhoy Abdulali	514	11	8
29	12" C. I. Drainage Pipes ...	Messrs. Turner Hoare & Co. ...	3,278	15	5
30	12", 5" & 3" C. I. Pipes and Special Castings	,, Macbeth Brothers & Co..	45,218	11	2
31	Cement, Portland	,, Ewart Latham & Co. ...	31,000	0	0
32	Half-round Teakwood Sleepers...	,, Hasanalli Adamji & Co...	8,355	7	6
33	Spare parts of Deacon's Meters Clocks	,, Turner Hoare & Co. ...	1,861	5	6
34	Tools and Plants, *viz.*, Pulley blocks and lifting chain, &c. ...	,, John Fleming & Co. ...	1,657	0	0
35	4", 6" & 9" S. W. Pipes and fittings	The Universal Agency Co. ...	11,453	4	8
36	W. I. Galvanized Pipes and fittings	Messrs. Palonji Edulji & Son ...	1,847	6	4
37	Portable Pneumatic Plant for Caulking Lead joints of C. I. Pipes	,, Heatley & Gresham, Ltd..	11,756	0	0
38	9" & 6" Drainage Pipes	,, Turner Hoare & Co. ...	1,619	11	9
39	Side Tip Wagons and points ...	,, Shaw Wallace & Co. ...	660	0	0
40	India Rubber Valve Faces ...	,, Iyengar & Co.	750	0	0
41	Lincona Balata, Belting... ...	,, John Fleming & Co. ...	660	0	0
42	Plates, W. I. black or Steel ...	,, Chaganlal & Co. ...	1,791	3	6
43	Cement, Portland	,, L. & F. Barraclough & Co.	54,359	6	0
44	C. I. Air Vent Shaft, 9"	,, Meherally Heerji ...	525	0	0

A. G. CHRISTIANSEN, M.S.E., A.M.I.M.E.,

Storekeeper.

APPENDIX C.

SPECIAL QUOTATIONS INVITED DURING 1913-14.

Serial No.	Articles.	Quantity.
1	Bolts and Nuts W. I., Hexagonal 3 $8''\times1\frac{1}{2}''$	5 Cwts.
2	S. W. Bends and C. I. Soil Pipes, &c.	Lot.
3	„ Saddle Pieces, $6''\times9''$	100 Nos.
4	Porcelain Privy Pans...	20 „
5	Dutchend Beam Scales	2 „
6	Sluice Valves $2''$	8 „
7	Boots	80 Pairs.
8	Hard Drawn Copper Wire	1,400 ft.
9	S. W. Bends Segmental $4''$	24 Nos.
	„ Junctions T. $6''\times6''$ Saddle	36 „
	„ Gully traps, half bend, $9''\times6''$	6 „
10	W. I. Tanks	2 „
11	C. I. Vent Shafts, $6'\times7\frac{1}{2}''\times4''$	80 „
	„ Straps	10 „
12	„ Sluice Valve $10''$	1 „
13	W. I. Spikes for Railway chairs	10 Cwts.
14	Chairs, Teakwood, with arms...	8 Nos.
	Tables „ plain top	8 „
15	Diagram for $4''$ Deacon Meters	2,000 „
16	Hand-power Grain Crushing Machine	1 „
17	Hose, Leather $2\frac{1}{2}''$	40 R.ft.
18	Horse Clipping Machine	1 „
19	Harness and Collar	1 „
20	Teakwood Table	1 „
	„ Stools	2 „
	„ Chest	1 „
21	Harness for horse, single, European-make	1 „
22	Bosch Magnets, outfit type. Z 4 (a box of spare parts of adjusting tools)	1 Set.
23	S. W. Quadrant junction, $6''\times6''$	40 Nos.
24	„ Bend, $4''$	40 „
25	S. W. Saddle T Pieces	20 „
26	Dicks Balata Belting, $12''\times5$ ply	70 ft.
27	Acid, Carbolic...	100 Gallons.
28	Fire and Burglar-proof Safe	1 No.

A. G. CHRISTIANSEN, M.S.E., A.M.I.M.E.,

Storekeeper.

APPENDIX D.

Particulars.	General Stores.	Surplus and Obsolete Stores.	Line Suspense Account.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs a. p.
Value of Stores in hand on 1st April 1913	2,91,969 14 0	26,868 6 9	1,16,332 4 9	4,35,170 9 6
Value of Stores Receipts, including transfers during 1913-14	8,05,261 0 8	391 12 9	2,426 11 8	8,08,079 9 1
Total Value ... Rs. ...	10,97,230 14 8	27,260 3 6	1,18,759 0 5	12,43,250 2 7
Less—				
Value of Stores issued, including transfers during the year 1913-14.	8,03,111 2 4	18,499 0 10	7,098 11 10	8,28,708 15 0
Balance ..	2,94,119 12 4	8,761 2 8	1,11,660 4 7	4,14,541 3 7
Less—				
Discrepancies adjusted as per Clause 29 of the Stores and Stores Audit Manual against Rate Adjustment Account	4 3 0	....	.....	4 3 0
Value of Stores on the 1st April 1914	2,94,115 9 4	8,761 2 8	1,11,660 4 7	4,14,537 0 7

A. G. CHRISTIANSEN, M.S.E., A.M.I.M.E.,
Storekeeper.

LICENSE DEPARTMENT.

I have the honour to submit my Administration Report, on the working of the License Department, for the year 1913-1914, in compliance with your No. 98, dated the 2nd April 1914.

2. During the year under report, 9,334 Licenses were issued, the total Revenue collected being Rs. 1,14,282-2-0, *vide* attached Statements marked A & B. This gives an increase of 998 in the number of Licenses issued and of Rs. 4,386-2-0 in the Revenue over the figures of the preceding year and of 2,176 Licenses and of Rs. 28,424-9-3 over the average of the last ten years.

3. For the first time since the creation of the Department in 1890-91, License fees were levied during the year, quarterly, half-yearly, or three-quarterly, and refunds of fees levied were allowed for the unexpired portions of license periods when places of licensable trades were closed or Licensees ceased to keep licensable commodities. In spite of the reductions necessarily due to these causes, the total revenue rose from Rs. 1,09,896 in 1912-13 to Rs. 1,14,282-2-0 during the year which is a record year for the License Department.

4. The fees remaining to be recovered for the year amounted to Rs. 674 as detailed below:—

Ward.	No. of Cases.	Total Amount. Rs. a. p.
A	3 ...	30 4 0
B	16 ...	63 0 0
C	14 ...	41 12 0
D	6 ...	35 4 0
E East	28 ...	265 8 0
E West	11 ...	78 4 0
F	17 ...	84 8 0
G	14 ...	75 8 0
	109	674 0 0

5. The miscellaneous receipts amounted to Rs. 43 as detailed below:—

	Rs. a. p.
For the production of records in Courts, &c. ...	20 0 0
For duplicate copies of Licenses, &c.	10 0 0
Bhatta allowance received for a witness summons from the 1st Class Sub-Judge, Thana.	13 0 0
Total ...	43 0 0

6. In 38 cases refunds of License fees were allowed amounting in aggregate to Rs. 409.

7. The revised Bye-laws relating to Milch Cattle Stables passed by the Corporation under their Resolution No. 5012, dated the 24th November 1913, were confirmed by His Excellency the Governor in Council (*vide* Resolution No. 675, dated the 26th January 1914)

and published in the *Bombay Government Gazette* of 29th January 1914. The Bye-laws in respect of Horse and Bullock Stables will be considered after the amendment of Section 461 of the Municipal Act is passed by Government.

8. The owners and Licensees of all the Milch Cattle Stables were requested to reduce the number of animals in conformity with the new Bye-laws, but no attempt to do so was made by them up to the end of the year. The Executive Health Officer requested that the question about the stables which in one respect or another did not comply with the Bye-laws might be placed before the Corporation for orders as to the policy to be pursued in future as regards them and suggested—

(1) that the owners of existing stables which fail to comply with the Bye-laws in every respect be given written notice that within 2 or 3 years they must make such alterations as may be necessary;

(2) that the Corporation should determine in which Section or Ward of the City Milch Cattle Stables be not permitted.

9. A list of all the stables (*a*) South of Grant Road, and (*b*) between Grant Road and Bellasis Road was prepared, and the question was being considered by the Commissioner.

10. Mr. R. B. Kotwal had in his Ropery at No. 506, Upper Duncan Road, a stack of reddish wood, 27 feet long, 11 feet 6 inches wide and 9 feet 6 inches high. A notice was served on him to take out a license but he contended that as the wood did not fall under the category of timber or fire-wood and as it was used for extracting a dye, a license was not required. The case was fought out in the Police Court with the assistance of the Municipal Solicitors and was decided in our favour by the Third Presidency Magistrate. His Worship held that as the wood stacked by the accused, though not actually used for building or other allied purposes, was yet capable of being put to some of the uses for which timber was used, and as it had all the risk of fire in common with the ordinary timber, the wood produced before the Court was " timber " within the meaning of the word under the provisions of Section 394 of the Municipal Act. His Worship therefore convicted and sentenced the accused to pay a fine of Re. 1 only as the case had been contested as a test case. Mr. Kotwal will probably appeal to the High Court.

11. During the year under report there were four Appeals to the High Court as detailed below, three were filed by the parties and one by the Public Prosecutor on behalf of the Municipality.

Serial No.	Appeal No.	Police Court Case No.	Police Court.	Name of the Accused.	Nature of offence.	Date of offence.	Ward.	Place of offence.	Result in the Police Court.	Result of Appeal.
1	375 / 1913	446	3rd Presidency Magistrate.	Dewji Bhima.	For keeping or allowing to be kept bullocks for hire without a License after conviction.	9th June 1913.	B	Chinch Bunder Road.	Convicted and fined Rs. 50 on 22nd August 1913.	The Appeal was dismissed by the High Court.
2	374 / 1913	669	3rd Presidency Magistrate.	Sarang Bhima for Dewji Bhima.	For keeping or allowing to be kept bullocks for hire without a License after conviction.	24th July 1913.	B	Chinch Bunder Road.	Convicted and fined Rs. 10 on 22nd August 1913.	The Appeal was dismissed by the High Court.
3	633 / 1913	716	Chief Presidency Magistrate.	Haji Abdulla Babu. ...	For keeping or allowing to be kept Milch Cattle for the sale of the produce thereof without a License.	28th October 1913.	E	284 Haines Road.	Convicted and fined Rs. 25 per day for 25 days ; Rs. 625 on 4th December 1913.	The Appeal was dismissed by the High Court.
4	68 / 1914	688	4th Presidency Magistrate.	Bomanji Rustamji Contractor.	For keeping timber without a License.	19th May 1914.	F	Bhoiwada Cross Road.	Acquitted on 15th October 1913.	The Appeal filed by the Municipality was allowed and the accused was convicted and fined Re. 1 by the High Court.

12. The third case illustrates how deterrent fines inflicted by the Presidency Magistrates prove effective.

One Haji Abdulla Babu was an assignee of a mortgage with possession of a Milch Cattle Stable at No. 284, Haines Road. In the latter part of 1912-13 he was called upon to pave the open space around the stable as required by the Health Department. As he failed to do so he was prosecuted for allowing to keep Milch Cattle without a License and fined as follows by the Third Presidency Magistrate.

Case No.	Date of Conviction.	Amount of Fine in Rs.
245-1913	18-4-13	15
341-1913	30-5-13	20
520-1913	11-7-13	20
683-1913	3-10-13	5

As no attempt was made to carry out the requisite work or to vacate the stable in spite of four convictions, proceedings were taken before the Chief Presidency Magistrate and the fines inflicted by him were as follows :—

Case No.	Date of Conviction.	Amount of Fine in Rs.	Remarks.
716-1913	4-12-13	625	A daily penalty of Rs. 25 for 25 days.
45-1914	26-2-14	252	A daily penalty of Rs. 7 for 36 days.
246-1914	26-3-14	100	A daily penalty of Rs. 10 for 10 days.

The stable was vacated in March 1914.

13. Since the passing of Act No. II of 1911, timber kept for building purposes was licensed, an exception being made in the case of buildings intended to be occupied or used wholly or partially by their owners.

14. Mr. Bomanji Rustomji Contractor, a building contractor by profession, had stacked a large quantity of timber, which was the residue of his contract works. in the compound of his property consisting of a Milch Cattle Stable and Chawls for mill-hands on Bhoiwada Cross Road in F Ward. The area of the space occupied by the timber stacks was 5,444 square feet and the fee leviable Rs. 33. He repudiated his liability to pay the fee on the ground that the timber was kept by him for building his own Chawl and was therefore for domestic use. The Fourth Presidency Magistrate upheld the objection and acquitted him.

15. As the case was one of considerable importance in principle, Government were requested by the Commissioner to direct the Public Prosecutor to present an Appeal to the High Court. An Appeal was accordingly filed and the High Court held that the timber kept for building one's own house is kept for a purpose other than domestic use, building being not a domestic purpose. The acquittal against which Government appealed was held to be wrong and Bomanji Rustomji Contractor was convicted and fined Rupee one.

16. During the rains, dung of Milch Cattle is not a marketable commodity and its removal to the Mahalaxmi Loading Siding is expensive. It is therefore generally discharged into drains. As dung was frequently passed into drains in spite of repeated warnings, the Licenses granted for the undermentioned stables were revoked or suspended by the Commissioner under Section 479 (3) of the Municipal Act, and the results were satisfactory :—

No.	Name.	Locality.	No. of animals for which licensed.	Remarks.
1	Haji Mahomed Haji Alli. ...	248-9, Mahomedan Street	400	The License is to be restored after the drainage work is satisfactorily completed.
2	Ahmed Suleman...	248 A, Haines Road	100	All the requirements have been complied with.
3	Chandbai Alibhoy.	3-5, 1st Panjrapole Street	50	The License is to be restored after the drainage work is carried out to the satisfaction of the Deputy Executive Engineer, Drainage.

17. By Act No. VI of 1913, Section 412A was inserted in the Municipal Act. This Section provides for the licensing of dealers in or importers or sellers or hawkers of milk. The work of issuing milk Licenses was entrusted to this Office under Commissioner's No. 26703 of 11th December 1913. Two license forms were prepared—(1) for milk-shop-keepers, and (2) for importers or sellers or hawkers of milk. They were revised by the Municipal Solicitors in February 1914 and approved by the Municipal Commissioner on 2nd March 1914. The necessary staff and the scale of fees were sanctioned by the Corporation in March 1914, *vide* their Resolutions Nos. 8747 of 19th March 1914 and 8847 of 23rd March 1914.

18. The total number of prosecutions during the year against persons carrying on trades, subject to licenses, without licenses and for infringing the conditions of licenses was 3,727 as detailed below:—

COURT.	No. of cases in which the accused were convicted and fined.	No. of cases in which the accused were convicted but warned and discharged.	No. of cases in which the accused were acquitted.	No. of cases withdrawn.	No. of cases postponed.	Total No. of cases filed in 1913-14.	Total amount of fines inflicted. Rs. a.
Chief Presidency Magistrate ...	193	.....	6	842	21	1,062	8,432 0
Third Presidency Magistrate ...	361	65	6	954	20	1,406	5,143 8
Fourth Presidency Magistrate ...	371	143	1	724	20	1,259	4,840 0
Total ...	925	208	13	2,520	61	3,727	18,415 8

19. There were 1,133 convictions, but in 925 cases fines were inflicted aggregating Rs. 18,415-8-0, the largest amount on record since the Department was created in 1890-91. The average fine per case works out to Rs. 20. The total fines amounted to Rs. 13,624-14-0 in 1912-13, Rs. 9,150 in 1911-12, and Rs. 3,965 in 1910-11.

20. The accidental omission of words "and in conformity with the terms and conditions of" from Section 394 as amended by Act II of 1911 referred to in my last report, was supplied by Act No. VI of 1913 which came into force on the 2nd October 1913.

21. The large increase in revenue as well as the increased Court work which brought in an exceptionally large amount in the shape of fines entailed hard work on the whole staff.

I have the honour to be,
Sir,
Your most obedient servant,
P. P. VAGH,
Superintendent of Licenses.

A

Yearly total of License fees recovered during 1913-1914.

No. of Licenses issued.	Nature of Trade.	License fees. Rs.	a.
52	Aerated Water (manufacturing)	1,260	0
18	Ashes	150	0
170	Bakeries...	4,052	8
8	Bricks (manufacturing) (hand-made)	82	8
4	Candles (do.) (do.)	87	8
8	Carbide of Calcium (retail)	40	0
3	Do. do. (wholesale)	150	0
2	Catgut	30	0
784	Charcoal	7,442	4
160	Chemical preparations	2,398	12
69	China grass	94	8
381	Coal and Coke	3,674	0
57	Cocoanut fibre, Flax, Hemp, and Jute	817	8
57	Cotton (cleaning)	1,416	4
228	Cotton refuse, Seed or Waste	4,432	4
43	Cowdung cakes (manufacturing)	544	0
223	Cloths in Indigo and other colours Dyeing (hand power)	2,083	4
13	Do. do. do. (mechanical power) ...	590	0
76	Dammer, Tar or Pitch	1,522	8
1	Dynamite	50	0
46	Fat and Tallow	626	4
7	Fins (dried)	105	0
18	Fish (do.)	430	0
131	Fireworks (retail)	537	8
33	Do. (wholesale)	803	12
995	Firewood (retail)	1,276	8
840	Do. (wholesale)	9,713	0
4427	Carried over ...	44,409	12

Yearly total of License fees recovered during 1913-1914—*contd.*

No. of Licenses issued.	Nature of Trade.	License fees.
		Rs. a.
4427	Brought forward ...	44,409 12
7	Gas (manufacturing)	350 0
76	Gunpowder (retail)	368 12
2	Do. (wholesale)	100 0
3	Ghee (manufacturing)	50 0
4	Hair	60 0
199	Hay, Straw and Grass	4,100 0
20	Hides and Skins dried	292 8
46	Do. do. (raw)	5,000 0
24	Horns and Hoofs	592 8
58	Kerosine oil (retail)	286 4
79	Do. (wholesale)	3,536 4
28	Lime for burning (lime kiln)	1,287 8
616	Matches (retail)	930 0
42	Do. (wholesale)	2,049 14
38	Do. (Bengal lights) (retail)	87 8
3	Do. (do.) (wholesale)	57 4
193	Metals (casting)	2,723 12
537	Oil (keeping)	11,873 12
2	Paper (manufacturing)	26 4
110	Permits under Section 390	2,750 0
341	Do. do. do. (renewal)	341 0
2	Petroleum (non-dangerous) (under Petroleum Act)	50 0
56	Do. (dangerous) (under Petroleum Act)	162 12
21	Pottery (manufacturing)	119 0
14	Rags	183 12
26	Saltpetre	130 0
6974	Carried over...	81,909 6

Yearly total of License fees recovered during 1913-1914—*concluded.*

No. of Licenses issued.	Nature of Trade.	License fees.
		Rs. a.
6,974	Brought forward ...	81,909 6
29	Smelteries	342 0
16	Soap (manufacturing)	381 4
32	Sugar refineries	750 0
74	Stables for Horses	3,258 12
81	Do. Milch Cattle	3,231 4
125	Do. Bullocks	2,131 4
8	Do. other four-footed animals	12 0
1,677	Timber	13,812 12
100	Turpentine (retail)	410 0
49	Do. (wholesale)	768 12
35	Whistles (steam)	350 0
46	Wool	1,096 4
.....	Licenses transferred	51 0
9,246	Total ...	1,13,504 10

B

Statement showing the amount of License fees for 1912-1913 recovered in 1913-1914 :—

No. of Licenses issued.	Nature of Trade.	License fees.
		Rs. a.
1	Ashes	10 0
4	Bakeries	122 8
1	Bricks (manufacturing) (hand-made)	10 0
7	Charcoal...	19 8
2	Cloths in Indigo and other colours Dyeing (hand-power)	22 8
1	Do. do. do. do. (mechanical power) ...	30 0
4	Coal and coke	24 0
20	Carried over ...	258 8

Statement showing the amount of License fees for 1912-13 recovered in 1913-14—*contd.*

No. of Licenses issued.	Nature of Trade.	License fees.
		Rs. a.
20	Brought forward ...	258 8
1	Cotton (cleaning)	35 0
10	Cotton refuse, Seed or Waste	67 8
5	Firewood (retail)	10 0
13	Do. (wholesale)	86 4
5	Hay, Straw and Grass	27 8
1	Hides and Skins (dried)	15 0
1	Matches (retail)...	5 0
2	Metal (casting)	27 8
3	Oil (keeping)	65 0
1	Permit under Section 390	25 0
6	Do. (renewal)	6 0
4	Pottery (manufacturing)	20 0
1	Rags	15 0
14	Timber	110 8
1	Turpentine (wholesale)	3 12
88	Total... ...	777 8

Summary of Income for 1913-1914.

No. of Licenses issued.	Official year during which collection was made.	License fees.	Remarks.
		Rs. a.	
88	Income for 1912-13, collected during 1913-14..	777 8	
9246	Income for 1913-14, collected from 1st April 1913 to 31st March 1914	1,13,504 10	
9334	Total ...	1,14,282 2	

P. P. VAGH,
Superintendent of Licenses

MARKETS.

REPORT OF THE SUPERINTENDENT OF MARKETS AND SLAUGHTER-HOUSES RECEIVED UNDER HIS No. 802, DATED 8TH JUNE 1914.

SIR,

I have the honour to submit the Annual Report of the Markets and Slaughter-Houses for the year 1913-14.

2. I was absent in England on six months' leave, during which time, I took the opportunity of inspecting some of the English Markets and refrigerators.

3. I am glad to be able to report that the total revenue from the Markets and Slaughter-Houses during the year under report amounted to Rs.5,85,493-10-6 against Rs. 5,81,035-3-2 in the previous year. This shows an increase of Rs. 4,458-5-4 in the revenue. When I joined this Department in 1911, the revenue was Rs. 4,88,606-14-5, to-day it is Rs. 5,85,493-10-6 or an increase of Rs. 96,886-12-1. The following are the contrasted statements, marked A to E, shewing the receipts in detail under the various heads with the reasons for the increase or the decrease :—

A

Statement of stall rents in detail, during the year under report, contrasted with those in the previous four years :—

Names of the Markets.	1909-10.	1910-11.	1911-12.	1912-13.	1913-14.	Difference as compared with 1912-13. Increase.	Difference as compared with 1912-13. Decrease.	REMARKS.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Colaba Market	488 14 0	557 10 0	413 1 0	338 11 0	538 8 0	146 13 0	...	
Fort Market	6,088 14 0	6,733 8 0	6,900 4 0	6,433 2 0	6,370 6 0	.....	61 12 0	
A. C. Fruit and Vegetable Market ...	57,986 8 9	63,103 2 0	64,800 9 0	76,461 0 8	75,789 1 0	.....	671 15 8	
Do. Fish and Mutton Market ...	7,627 1 0	8,397 10 0	8,347 13 0	8,776 4 0	8,670 9 0	.....	105 11 0	
Do. Mutton (New) Market	2,548 9 0	2,658 4 0	2,569 9 6	2,745 7 0	2,869 12 0	124 5 0	...	
Do. Beef Market	10,875 6 0	10,800 0 0	10,763 0 0	11,701 8 0	11,724 0 0	22 8 0	...	
Godowns	5,434 2 0	5,236 0 0	5,197 14 0	6,763 13 0	6,916 0 0	152 3 0	...	
Fowl Rooms	3,660 0 0	2,848 0 0	2,894 11 0	3,019 2 0	3,166 10 0	147 8 0	...	
Bird Shops	.....	1,057 0 0	1,805 7 0	1,895 * 0	2,168 2 0	272 11 0	...	
Erskine Road Fruit and Vegetable—								
Do. (Old) Market ...	24,328 9 6	25,464 0 9	27,665 6 6	31,990 8 0	32,719 14 0	729 6 0	...	
Do. (New) Market ...	4,676 2 0	4,805 12 0	4,566 15 0	4,969 0 0	5,259 11 0	290 11 0	...	
Do. Mutton Market ...	7,442 5 0	7,696 6 0	7,789 5 0	7,867 5 0	8,078 14 0	211 9 0	...	
Bhuleshwar Market	12,715 3 3	12,705 12 0	14,788 5 0	15,184 9 0	15,320 4 6	135 11 6	...	
Pedder Market	1,452 2 0	1,446 0 0	1,362 0 0	1,848 15 0	1,464 15 0	116 0 0	...	
Kamathipura Market	.....	.....	.....	2,053 13 0	2,472 2 0	418 5 0	...	Opened from 1st April 1912.
Fort Market	100 0 0	100 0 0	100 0 0	100 0 0	100 0 0	.....	...	
Delisle Road Sheep Market ...	7,346 0 0	7,346 0 0	7,413 8 0	7,300 7 0	7,566 0 0	265 9 0	...	
Fergusson Road Market	1,379 3 0	1,391 5 0	1,612 10 0	1,668 11 0	1,740 0 0	71 5 0	...	
Parbhadevi Road Market ...	499 0 0	668 6 0	668 6 0	654 14 0	640 7 0	.....	14 7 0	
Elphinstone Road Market	1,485 4 9	1,499 14 0	1,317 11 3	1,320 9 0	1,350 13 0	30 4 0	...	
Foras Road Market	1,026 3 9	944 14 0	.....	.....	.....	.....	...	
Total ...	5,37,054 8 0	1,64,349 7 9	5,70,297 7 3	5,92,610 4 8	5,94,924 9 6	3,134 12 6	953 13 8	
Increase over preceding year's rents...	.....	7,194 15 9	6,597 15 6	21,932 10 5	2,280 14 10	.....	...	
Decrease below do. ...	3,568 8 6	.....	.....	.....	.....	.....	...	

4. The increase in stall rents is due to the occupancy of some of the vacant stalls during the year under report as also to the revision of the rents of the Erskine Road Markets.

B

Statement showing the Squatters' Fees from Municipal Fish Markets, Scale Fees in the Crawford Markets compound, and the Fair Ground Rent and Feeding Fees at the Bandora Slaughter Houses recovered from the contractors during the year under report contrasted with those in the previous four years :—

Particulars.	1909-10.	1910-11.	1911-12.	1912-13.	1913-14.	Difference as compared with 1912-13.	
						Increase.	Decrease.
	Rs.	Rs. a.	Rs. a.	Rs.	Rs.	Rs. a.	Rs.
Fort Market	1,925	1,925 0	1,950 0	1,750	1,700	.....	50
A. C. Beef and Fish Markets	9,000	9,100 0	9,500 0	9,000	10,000	1,000 0	...
Erskine Road Fish Market.	20,500	23,550 0	24,400 0	25,500	24,200	.....	1,300
Pedder Market	1,500	1,500 0	1,825 0	1,925	1,800	.. ...	125
Kamatipura Market ...	...	.....	.....	1,600	1,450	.....	150
Colaba Market	1,100	1,100 0	1,150 0	1,225	1,150	.....	75
Fergusson Road Market...	1,200	1,600 0	1,650 0	1,550	1,900	350 0	...
Parbhadevi Road Market.	750	750 0	800 0	950	1,200	250 0	...
Elphinstone Road Market.	720	850 0	775 0	825	850	25 0	...
Total Squatters' Fees ...	36,695	40,375 0	42,050 0	44,325	44,250	1,625 0	1,700
Scale fees at the A. C. Market compound ...	3,200	5,233 4	7,800 0	5,600	8,500	2,900 0	...
Fair ground rent and feeding fees	71,000	71,000 0	80,200 0	79,700	88,600	8,900 0	...
Grand Total	1,10,895	1,16,608 4	1,30,050 0	1,29,625	1,41,350	13,425 0	1,700
Increase over preceding year's amount	...	5,713 4	13,441 12	...	11,725	.....	...
Decrease below preceding year's amount	4,780	.. ...	.....	425	...	.....	...

5. From the above statement it will appear that the total realizations from the contractors show an increase of Rs. 11,725. The greater part of this increase is under the head of "Fair Ground Rent and Feeding Fees" and this is mainly due to the fact that for the last three years, the importation of horned cattle to Bandora has been more owing to famine.

C

Statement showing the Squatters' Fees collected departmentally in the several Municipal Markets during the year under report contrasted with those in the previous year :—

Names of the Markets.	1913-14.	1912-13.	Difference.		REMARKS.
			Increase.	Decrease.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Colaba Market	10 2 0	93 4 0	.....	83 2 0	
A. C. Fruit and Vegetable Market ...	189 4 0	159 15 0	29 5 0	.....	
Erskine Road Old Fruit and Vegetable Market	2,247 0 0	1,168 12 0	1,078 4 0	.....	
Bhuleshwar Market	1,545 8 0	1,192 3 0	353 5 0	.....	
Pedder Market	11 8 0	4 0 0	7 8 0	.....	
Foras Road Market	.....	4 0 0	.....	4 0 0	
Fergusson Road Market	2,167 14 0	2,205 8 0	.....	37 10 0	
Parbhadevi Road Market	1,317 3 0	1244 8 0	72 11 0	.....	
Elphinstone Road Market	383 9 0	338 7 0	45 2 0	.....	
Kamatipura Market	.....	46 14 0	.....	46 14 0	
Total ...	7,872 0 0	6,457 7 0	1,586 3 0	171 10 0	

6. The above statement will show an increase of Rs. 1,414-9-0 over the preceding year, chiefly in the Erskine Road and the Bhuleshwar Markets. This is due to efforts having been made in removing the squatters in the vicinity of the Markets and inducing them to take their sittings in the Markets, on payment of daily fees or to take stalls on the quarterly rentals. The statement in the margin will show the average number of stalls vacant in each quarter during the year under report as compared with those in the previous year.

Names of the Markets.	Total number of stalls.	Average No. of stalls vacant in each quarter in 1913-1914.	Average No. of stalls vacant in each quarter in 1912-13.	REMARKS.
Colaba Market	70	52	56	
Fort Market..	266	93	95	Rent collected half-yearly.
A. C. Fruit and Vegetable Market	360	32	30	
A. C. Fish and Mutton Market	119	46	47	
A. C. Mutton (New)	68	23	24	
A. C. Beef Market..	81	1	1	
Godowns	26	....	....	
Fowl Rooms..	27	....	....	Rent collected monthly.
Bird shops	18	2	....	
Erskine Road Fruit and Vegetable Market, old	451	57	54	
Do. do. do. do. new.	118	42	53	
Erskine Road Mutton Market	114	37	37	
Bhuleshwar Market	176	10	11	
Pedder Market	40	7	8	
Pork Market	2	....	....	Rent collected yearly.
DeLisle Road Sheep Market	50	....	1	Rent collected half-yearly.
Fergusson Road Market	31	1	1	
Kiphlestone Road „	45	15	14	
Parbhadevi Road „	25	5	4	
Kamatipura Market	48	2	7	
Total ..	2,385	481	467	

D

Comparative statement showing the revenue from other sources, comprising the heads "Verifying Weights and Measures, Garden Produce, Price Current, &c." :—

Particulars.	1913-14.	1912-13.	Difference. Increase.	Difference. Decrease.	Remarks.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Verifying weights and measures..	1,837 12 0	1,395 8 6	442 3 6	....	
Garden produce	1 0 0	10 0 0	.....	9 0 0	
Prices Current	76 8 0	90 9 0	.....	14 1 0	
Sale-proceeds of meat or animals seized under Section 412 ...	84 4 0	66 4 0	18 0 0	.....	
Sale-proceeds of meat vans cast bullocks	1,020 0 0	.....	1,020 0 0	.....	
Sale-proceeds of manure ...	54 0 0	55 8 0	.....	1 8 0	
For producing office records, Inspection fees, &c.	16 0 0	5 0 0	11 0 0	.....	
Sale-proceeds of copies of Bye-laws	1 0 0	0 4 0	0 12 0	.....	
For the right of removing dead animals from the Slaughter Houses compound	200 0 0	180 0 0	20 0 0	.....	
Miscellaneous	41 4 0	46 4 0	.....	5 0 0	
Total ...	3,331 12 0	1,849 5 6	1,511 15 6	29 9 0	

7. The above statement calls for no remarks.

E

Slaughter fees, Butchers' License fees, &c.

Particulars.	1913-14.	1912-13.	Difference. Increase.	Difference. Decrease.	Remarks.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Slaughter fees	2,13,529 14 0	2,25,497 15 0	... ..	11,968 1 0	
License fees	16,771 0 0	17,067 8 0	.....	296 8 0	
Ground rent	264 0 0	264 0 0	.....	.....	
Chawl rent	2,894 0 0	2,874 0 0	20 0 0	.....	
Proceeds of blood from the contractor	4,560 0 0	4,760 0 0	.....	200 0 0	
Total ...	2,58,018 14 0	2,50,463 7 0	20 0 0	12,464 9 0	

8. From the above statement it will appear that the Slaughter Fees show a large decrease of Rs. 11,968-1-0. This is due to the fact that during the year under report there was a decrease in the slaughter of buffaloes. The marginal statement shows the number of animals slaughtered during the year under report as compared with those in the previous year.

Description of animals.	Number slaughtered in 1913-14.	Number slaughtered in 1912-13.	Increase.	Decrease.
Buffaloes	6,798	7,939	...	1,141
Cows, Bullocks and Calves	60,429	54,155	6,274	..
Sheep and Goats	657,948	688,519	...	30,571
Pigs slaughtered at the Sonapur Slaughter House	915	591	200	...
Do. do. at private premises... ...	21	145	...	...
Sucklings	153	157	...	4

9. The total receipts under all the heads shown in the foregoing statements A to E amount to Rs. 5,85,493-10-6 during the year under report against Rs. 5,81,035-5-2 in the previous year, showing an increase of Rs. 4,458-5-4 already noted in para. 2.

10. In the statement F is shown the financial results of the working of each market during the year under report, that is, gross receipts and expenditure of each market and the percentage on the original cost of the market building, *plus* the cost of any addition made to the building during the year. The average percentage on the total income and expenditure comes to 8·2 per cent., which is satisfactory—

F

Names of the Markets.	Original Cost.	Addition, if any, made during the year.	Total Cost.	Gross Receipts.	Expenditure.	Net Receipts.	Percentage on the Cost.	Remarks.
1913—1914.	Rs. as. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs.	
Colaba Market	93,393 0 0	....	93,393 0 0	1,693 10 0	1,396 12 9	296 13 3	·31	
Fort do.	1,22,600 0 0	....	1,22,600 0 0	8,070 6 0	5,784 12 7	2,285 9 5	1·86	
Crawford Market	7,06,357 0 0	....	7,06,357 0 0	1,29,993 6 0	41,809 12 11	88,183 9 1	12·44	
Erskine Road Market	5,70,780 6 3	....	5,70,780 6 3	72,505 7 0	17,433 3 9	55,072 3 3	9·64	
Bhuleshwar do.	3,67,613 1 9	....	3,67,613 1 9	16,865 12 6	3,199 10 7	13,666 1 11	3·71	
Pedder do.	52,630 0 0	....	52,630 0 0	3,276 7 0	2,334 14 7	941 8 5	1·78	
Pork do.	5,500 0 0	....	5,500 0 0	100 0 0	154 13 3 loss.	54 13 3 loss.	1·16 loss.	
DeLitle Road Sheep Market ..	25,000 0 0	....	25,000 0 0	7,566 0 0	3,446 3 5	4,119 12 7	16·47	
Fergusson Road do.	22,669 0 0	....	22,669 0 0	5,807 14 0	1,500 12 7	4,307 1 5	18·99	
Parbhadevi Road do.	18,894 15 1	....	18,894 15 1	3,157 10 0	2,291 12 2	865 13 10	4·57	
Elphinstone Road do.	29,266 15 4	....	29,266 15 4	2,584 6 0	2,325 10 0	258 12 0	·88	
Kamatipura do.	50,691 0 0	....	50,691 0 0	3,922 2 0	2,305 2 0	1,617 0 0	3·18	
Total ..	20,67,345 6 5	....	20,67,345 6 5	2,55,543 0 6	88,993 8 7	1,71,614 5 2	....	
					Deduct Loss ..	64 13 3		
					Net Receipts ..	1,71,549 7 11		

11. During the year under report 6,864 buffaloes, 63,370 horned cattle and 713,917 sheep and goats were brought to the Bandora Fair ground for examination and disposal, out of which number, 41 buffaloes, 2,008 horned cattle and 18,637 sheep and goats were found, on inspection, to be unfit for slaughter and were consequently rejected, *vide* the following comparative statement. The remainder were either slaughtered for the Markets or were otherwise disposed of, the details of which are shown in Appendix **A** :—

Year.	Animals brought to the Fair ground.			Animals rejected.		
	Buffaloes.	Horned Cattle.	Sheep and Goats.	Buffaloes.	Horned Cattle.	Sheep and Goats.
1913–14 ...	6,864	63,370	713,917	41	2,008	18,637
1912–13 ...	7,922	57,329	747,616	33	2,018	19,699

12. During the year under report 775 mutton carcasses and 68 beef carcasses were found diseased and cystic, on inspection, at Bandra and were consequently destroyed.

13. The fines inflicted by the Presidency Magistrates for the infringement of the provisions of the Municipal Act and the Bye-Laws pertaining to the Markets during the year under report amounted to Rs. 1,648 against Rs. 1,374-14-0 in the previous year. The total amount of fines includes Rs. 1,558 for the importation of contraband meat, Section 412 (1), the balance of Rs. 90 being for infringing other sections of the Act.

14. Steps were taken, as usual, to destroy articles of food exposed for sale in the different Markets that were found unwholesome. The following table gives the figures of the various articles destroyed during the currency of the year under report :—

Meat (Bandora and Bombay)	8,523	lbs.
Fish	154,424	„
Fruit	22,596	„
Vegetable	27,307	„
	212,850	lbs.

15. The quantity of contraband meat seized and destroyed during the year under report was 3,007½ lbs. against 6,726 lbs. in the previous year. This reduction in the seizure and destruction of meat shows that the additional powers obtained by the amendment of the Municipal Act have proved very successful in stopping the importation of Coorla meat. There were 89 convictions in regard to Coorla meat during the year under report against 170 in the previous year.

16. The beef supply was plentiful and cheap during the year under report, owing to the importation of a large number of cattle to Bandora by the dealers on account of the famine. But the supply of mutton was somewhat scarce and dear, particulary during the monsoon, on account of the scarcity of animals. The fruit and vegetable supply was, as usual, up to the mark.

17. My staff worked satisfactorily during the year.

I have the honour to be,

Sir,

Your most obedient servant,

L. W. MICHAEL,

Superintendent of Markets.

APPENDIX A.

STATEMENT showing the number of Animals slaughtered, removed for private slaughter, etc., during the year 1913-1914.

Description of Animals.	Months.												Total number of Animals.	Total Amount of slaughter fees.	REMARKS.
	April 1913.	May 1913.	June 1913.	July 1913.	August 1913.	Sept. 1913.	Oct. 1913.	Nov. 1913.	Dec. 1913.	Jan. 1914.	Feb. 1914.	March 1914.		Rs. a. p.	
Buffaloes	387	403	618	819	786	732	620	495	482	479	471	506	6,798	67,980 0 0	
Cows	4,415	4,453	4,141	3,810	3,545	3,200	3,568	4,164	4,750	4,965	4,107	4,324	49,442	37,081 8 0	
Bullocks	944	915	805	684	692	644	662	766	832	904	760	891	9,499	7,124 4 0	
Calves	90	93	102	96	65	69	112	127	174	197	138	225	1,488	1,116 0 0	
Sheep, Goats, &c., for Bombay	50,903	50,411	49,751	50,591	50,529	49,359	52,849	49,944	53,006	51,946	47,091	58,126	614,506	76,813 4 0	
Do. do. Mahim	1,742	1,911	1,881	1,922	1,600	1,809	2,144	1,699	2,333	2,128	1,968	2,296	23,433	1,464 9 0	
Do. do. Bandora	1,515	1,632	1,669	1,689	1,760	1,740	1,709	1,598	1,722	1,745	1,548	1,682	20,009	1,250 9 0	
Pigs at Sonapore ... { Pigs ... ... / Sucking pigs...	77 ...	71 ...	77 ...	96 ...	75 1	65 ...	70 3	70 6	77 6	92 ...	70 6	75 1	915 23	915 0 0 / 5 12 0	
Do. Private Slaughter. { Pigs ... ... / Sucking pigs...	... 7	3 12	2 1	1 9	... 2	1 5	2 17	4 22	... 10	1 13	7 32	... ...	21 130	42 0 0 / 32 8 0	
Live Horned Cattle brought to Bombay...	45	52	49	76	313	117	54	62	72	140	54	72	1,106	5,530 0 0	
Live Sheep, Goats, &c., brought to Bombay ...	533	280	249	273	338	407	239	1,059	477	277	339	400	4,811	2,405 8 0	
Do. (Private Slaughter) ...	5	...	6	4	1	4	3	1	1	...	1	1	27	13 8 0	
Live Sheep, Goats, &c., removed by De-Lisle Road Sheep Market Fadkarees ...	1,665	1,652	1,851	3,303	1,182	1,258	2,141	3,236	1,700	1,538	1,841	2,644	23,511	11,755 8 0	
											Total ...		755,719	2,15,529 14 0	

The figures in (Block Type) show the number of Animals slaughtered in Bombay by private individuals within the meaning of Section 403 (1) (c) of the Act.

L. W. MICHAEL,
Superintendent of Markets.

EDUCATIONAL.

REPORT OF THE SCHOOLS COMMITTEE FORWARDED BY THE COMMITTEE'S SECRETARY UNDER HIS No. 1599 OF 21ST MAY 1914.

THE SCHOOLS COMMITTEE'S OFFICE,
BOMBAY, 11*th May* 1914.

REPORT ON THE ADMINISTRATION OF THE SCHOOLS COMMITTEE FOR THE YEAR 1913-1914.

Constitution of the Committee.

At the commencement of the year the Committee consisted of the following members:—

The Hon. Mr. C. H. Setalvad, B.A., LL.B.	Rao Bahadur Dharji Cassinathji.
The Hon. Sir Ibrahim Rahimtoola, Kt., C.I.E.	Kazi Kabiruddin, Esq., Bar-at-Law.
D. E. Wacha, Esq.	N. V. Mandlik, Esq., B.A., LL.B.
James MacDonald, Esq.	Dr. Jehangir J. Cursetji, M.D.

Under Section 39 (3) of the Bombay Municipal Act the two senior Members, who retired from the Board, were the Hon'ble Mr. C. H. Setalvad and the Hon'ble Sir Ibrahim Rahimtoola, and they were re-appointed by the Corporation.

The Hon'ble Mr. Setalvad was unanimously re-elected Chairman for the year.

Finance.

The opening balance of the School Fund was Rs. 63,852. The receipts from all sources amounted to Rs. 4,37,505 as against Rs. 3,68,837 for the preceding year. The increase was mainly due to the addition made by the Corporation in the Municipal Contribution, in order to meet the growing requirements of primary education in the City of Bombay. The total expenditure for the year was Rs. 4,37,815 being Rs. 59,727 more than in the year 1912-1913. The increase was chiefly in consequence of fourteen new schools opened during the year under report, promotion given to trained and untrained teachers under the rules, provision of better quarters for schools, the registration of new schools for Grant-in-Aid, and the re-assessment of the grant of some of the schools already on the register.

The year closed with a balance of Rs. 63,542.

The average cost per pupil was Rs. 20·4, against Rs. 19·9 last year, being distributed as under:—

Teaching	Rs.	12·8
House rent	„	5·4
Miscellaneous...	„	2·2
Total ...	„	20·4

The slightly higher cost was under the head of "Teaching," being due to the triennial increases given to teachers during the year.

Municipal Schools.

The subjoined table gives a summary of the total number of Municipal Schools of all descriptions, with the aggregate attendadce thereat for the past two years.

Classes of Schools.	Municipal.			
	1912-1913.		1913-1914.	
	Schools.	Pupils.	Schools.	Pupils.
Marathi.				
Day Schools—				
Middle Schools	3	219	3	281
Primary for boys	52	6,716	56	7,584
Do for girls	18	1,695	20	2,123
Total of Marathi Schools ...	73	8,630	79	9,988
Gujerati.				
Day Schools—				
Middle Schools	1	50	1	127
Primary for boys	27	2,563	31	2,835
Do, for girls	14	1,420	15	1,660
Total of Gujerati Schools ...	42	4,033	47	4,612
Urdu.				
Day Schools—				
Middle Schools	...	...	...	...
Primary for boys	39	3,604	42	3,699
Do. for girls	3	368	3	427
Total ...	42	3,972	45	4,126
Night Schools	3	111	3	120
Total of Urdu Schools ...	45	4,083	48	4,246
Grand Total of Marathi, Gujerati and Urdu Schools ...	160	16,746	174	18,846

Fourteen new schools were opened during the year, and the total number of scholars at the end of the year was 18,846, as contrasted with 16,746 pupils in the preceding year. But for the disturbance caused by the plague, the total attendance would have been higher.

Three Gujerati schools for Bhangis were opened, one at Bapty Road, Byculla, another at Walpakhadi, Mazagaon, and the third at Parbhadevi, Parel. As it was not possible to hire a house for the Parbhadevi School, a shed has been specially erected for it. These schools are situated in proximity of the quarters for Bhangis, and a fair commencement has been made. Education in those schools is given free, and the pupils are also supplied with slates and Exercise Books.

The Schools Committee now maintain ten free schools for the Depressed classes, seven Marathi and Three Gujerati with a total attendance of 960 pupils. There are three more free Schools designed specially for factory children, with a total attendance of 215 pupils. With the active co-operation of Mill Managers, the experiment will meet with better success.

Under an arrangement made with the Corporation, the Government have made provision for a maximum number of 75 stipendiaries from Bombay in their Training Colleges for Men and Women. Out of a total number of 691 teachers employed in these schools, there are 257 trained and 434 untrained teachers: and with the accession of a goodly number of qualified persons every year to the ranks of teachers, the number of untrained persons will steadily decrease.

The undermentioned table gives the number of trained and untrained teachers in the Municipal Schools:—

	Number of Teachers.								
	Trained.			Untrained.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
			For the year 1913-1913.						
Marathi	142	31	173	100	23	133	242	54	306
Gujerati	26	20	46	80	43	123	106	63	169
Urdu	16	...	16	139	27	166	155	27	182
Total ...	184	51	235	319	103	422	503	154	657
			For the year 1913-1914.						
Marathi	147	40	187	119	31	150	266	71	337
Gujerati	30	22	52	83	42	125	113	64	177
Urdu	18	...	18	137	22	159	155	22	177
Total ...	195	62	257	339	95	434	534	157	691

For improving the efficiency of the Schools, additional special teachers were employed during the year, for Drill, Drawing and Sewing.

The progress of the Schools was generally satisfactory.

Scholarships.

Four out of five middle schools Scholarships were won by pupils of the following Municipal Schools:—

Khetwadi A. V. Marathi School.
Girgaum Marathi Boys' School.
Nagpada Urdu Boys' School.
Kamathipura Marathi Nirashrit School.

Two of the Mary Carpenter Scholarships of the value of Rs. 3 each were won by a girl attending the Tank Bunder Urdu School and another belonging to the Falkland Road Urdu School.

School Buildings.

Twelve schools in all have special buildings of their own. A building is under construction for the accommodation of the Khetwadi A. V. School, and sites have been selected for a few more schools to be provided out of the sum of ten lakhs for buildings to which the Government and the Corporation have contributed equally.

Constant endeavour is made to secure better accommodation for schools occupying hired buildings. Fourteen schools were moved to new quarters during the year, while ten more were provided with additional accommodation.

Aided Schools.

The following table shows the number of aided Schools with the attendance thereat as contrasted with the figures for the preceding year:—

Class of Schools.	Aided.			
	1912-1913		1913-1914.	
	Schools.	Pupils.	Schools.	Pupils.
Marathi.				
Day Schools—				
Primary for boys	41	4,579	47	4,775
Do. for girls	16	1,910	14	1,642
	57	6,489	61	6,417
Night Schools	9	329	11	226
Total of Marathi Schools	66	6,818	72	6,643
Gujerati.				
Day Schools—				
Primary for boys	33	3,577	34	3,059
Do. for girls	17	2,418	19	2,852
Night Schools	2	101	2	146
Total of Gujerati Schools	52	6,096	55	6,957
Urdu.				
Day Schools—				
Primary for boys	5	857	6	987
Do. for girls	2	250	1	185
Total of Urdu Schools	7	1,107	7	1,172
Grand Total of Marathi, Gujerati and Urdu Schools	125	14,021	134	14,772

Thirteen new schools were registered, while four schools were closed. There was thus a net increase of nine.

The total amount paid as Grant-in-Aid was Rs. 53,005 against Rs. 45,167 for the year 1912-1913. As the grant of a number of schools was reassessed in consequence of their improvement and development, they were awarded a larger grant than that previously earned by them.

Death of Teachers.

Four teachers died during the year, one of these being Mr. V. P. Vartak, Headmaster, Khetwadi 2nd Gr. A. V. School. He was a man of marked ability and well maintained the efficiency of the School.

Donations.

The Trustees of "the S. M. Edwardes Memorial Fund" have made two quarterly contributions of Rs. 54 for awarding six scholarships, each of the value of Rs. 3 per month to deserving Moslem girls attending Municipal Schools.

Sir Vasanji Tricumji presented 150 copies of a vernacular book on Domestic Happiness for distribution among pupils belonging to the Bhuleshwar Girls' school.

Mr. J. M. Framji Patel presented portraits of Lord and Lady Harris for the Lord Harris Municipal School.

Sundry gifts of books, sweets and clothes were received from others, on the occasion of the celebration of Lord Hardinge's birth-day. All the donations were accepted by the Committee with cordial thanks.

Medical Inspection of Schools.

A preliminary physical census of pupils in some of the Municipal Schools was taken under the direction of Dr. Turner, Health Officer, and on the result being reported by him to the Committee, it has been decided to employ qualified doctors for the purpose of holding a thorough medical inspection of the pupils attending all the Municipal Schools. The question of employing a permanent staff will be considered, when the result of the enquiry is laid before the Committee.

Race of Pupils.

The number of pupils in the Municipal and Aided Schools according to their race was as under :—

Race.	1912-1913.			1913-1914.		
	Municipal.	Aided.	Total.	Municipal.	Aided.	Total.
Europeans and Eurasians	...	1	1	...	2	2
Portuguese and Native Christians	91	362	453	102	367	469
Hindus	11,816	8,079	19,895	13,722	7,830	21,552
Mahomedans	4,510	1,935	6,445	4,647	2,076	6,723
Buddhists	...	...	...	...	...	...
Parsis	260	3,135	3,395	268	3,941	4,209
Others	69	509	578	107	556	663
Total ...	16,746	14,021	30,767	18,846	14,772	33,618

N. B. MASANI,
Secretary, Schools Committee.

Appendix A.

Statement of Actual Income and Expenditure of "the School Fund" for the year 1913-1914.

Receipts.	Amount.	Expenditure.	Amount.
	Rs. a. p.	A.—Schools.	Rs. a. p.
1. Balance on the 1st of April 1913	68,852 12 8	1. Head Masters and Teachers	2,23,116 5 2
		2. Servants	7,970 4 6
2. Fees from Municipal Schools	32,329 2 0	3. Rent	1,02,751 7 8
		4. Cost of Class Books	847 3 4
3. Contribution from the General Municipal Fund..	4,02,817 0 0	5. School Furniture	10,796 5 6
		6. Prizes	8,686 2 9
		7. Contingencies and Miscellaneous	16,604 15 11
4. Government Grants-in-Aid towards Buildings ...	.....	8. Scholarships in Schools	869 0 0
		9. Stipends of Students under training as Vernacular Teachers	5,162 12 2
		10. Superintendent's Establishment	10,360 4 9
5. Interest on Endowments or Investments ...	2,116 1 8	11. Grants-in-Aid to Primary Schools ...	53,005 0 0
		12. Library and Museum	1,270 10 11
6. Miscellaneous	243 6 0	B.—Buildings.	
		1. Municipal Original Works	.....
		2. Repairs to Municipal Schools Houses	1,904 14 4
		Balance on 31st March 1914	63,542 9 11
Total Rs. ...	5,01,358 5 11	Total Rs. ...	5,01,358 5 11

The Schools Committee's Office,
Bombay, 11*th May* 1914.

N. B. MASANI,
Secretary, Schools Committee.

Appendix B.

Balance Sheet of "the School Fund" for the year 1913-1914.

Liabilities.	Rs. a. p.	Assets.	Rs. a. p.
To Deposit Account	686 8 11	By Bank of Bombay Government, &c., Paper Deposit Account	4,000 0 0
„ Hurkisondas Brijlal Prize Fund—			
Principal ... ... Rs. 500 0 0		„ Bank of Bombay, Surplus Cash, Government, &c., Paper Deposit Account	24,109 6 0
Interest ... ... „ 29 9 7	529 9 7	„ Bank of Bombay on account of Securities from Contractors	2,100 0 0
„ Dr. Blaney Prize Fund—			
Principal ... ... Rs. 1,000 0 0		„ Advance Account—	
Interest ... ... „ 59 15 8	1,059 15 8	To the Secretary ... ... Rs. 15 0 0	
„ Madhavdas Rugnathdas Prize Fund—		„ Superintendent ... ... „ 50 0 0	
Principal ... ... Rs. 500 0 0			65 0 0
Interest ... ... „ 26 8 0	526 8 0		
„ Jivkore Lallubhai Scholarship, &c., Fund—		„ Advance Miscellaneous	221 0 0
Principal ... ... Rs. 1,000 0 0			
Interest ... ... „ 235 10 0	1,235 10 0	„ Actual Cash Balance—	
„ Bachoobai S. Bengalee Prize Fund—			
Principal ... ... Rs. 1,000 0 0		In Bank of Bombay ... Rs. 40,308 10 3	
Interest ... ... „ 103 0 2	1,103 0 2	„ Office Treasury ... ... „ 48 6 0	40,357 0 3
„ Paper Deposits from Contractors	2,135 8 0		
„ Donation for Training Urdu Teachers	2 0 0		
„ N. S. Bengalee Donation	4 0 0		
„ Catchhi Memon Scholarship	28 0 0		
„ Income and Expenditure Account—			
Balance on 31st March 1914	63,542 9 11		
Total Rs. ...	70,853 6 3	*Total Rs.* ...	*70,853 6 3*

The Schools Committee's Office,
Bombay, 11*th May* 1914.

N. B. MASANI,
Secretary, Schools Committee.

BOMBAY, *29th August* 1914.

From

THE MUNICIPAL AUDITORS,
BOMBAY,

To

THE MUNICIPAL SECRETARY,
BOMBAY.

SIR,

We have the honour to forward herewith our report on the Municipal Accounts for the year 1913-1914, with a view to the same being printed and submitted to the Corporation, as usual.

We have the honour to be,
Sir,
Your most obedient servants,

BHUKHANDAS B. DESAI,

SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

REPORT OF THE AUDITORS OF MUNICIPAL ACCOUNTS FOR THE YEAR 1913-1914.

For the audit of the accounts under review Messrs. B. B. Desai and S. T. Thakur were appointed to be Auditors as per Corporation Resolution No. 6996, dated 3rd March 1913.

2. As usual all vouchers and papers relating to both Receipts and Disbursements for the year 1913-14 have been examined with the Day Books and the Subsidiary Ledgers or classified Abstracts of Receipts and Charges; the postings in the General Ledger have also been checked with the entries in the Day Books and those in the Journal with the Subsidiary and General Ledgers.

3. The weekly statements of Receipts and Charges of the Municipal Fund were examined as they were prepared, prior to their publication in the *Bombay Government Gazette*.

4. The number of vouchers relating to the accounts of the year, under review, compares with those of the previous year as follows:—

	1912-13.	1913-14.
Receipt vouchers	39,993	40,934
Disbursement vouchers	90,657	99,628
	1,30,650	1,40,562
	+9,912	

There is on the whole an increase of 9,912 in the number of vouchers in the year under report.

5. The result of the year compared with the Budget and the Revised and the Actuals of the previous year has been summarized below:—

	Actuals, 1912-13.	1913-14.		
		Budget.	Revised.	Accounts.
	Rs.	Rs.	Rs.	Rs.
Revenue and Receipts	1,27,41,589	1,22,18,710	1,26,14,210	1,28,76,501
Expenditure	1,16,81,587	*1,21,92,066	*1,33,19,020	*1,20,48,926
Surplus	10,60,002	26,644	.....	8,27,575
Deficit	.....	.....	7,04,810	.....

* Exclusive of Rupees 1,00,000 provided in the Budget for the write-off of the balance of Plague Expenditure.

6. For the purpose of comparison of the normal figures of Receipts and Expenditure the item of Rupees 1,00,000 on account of write-off of the balance of Plague expenditure has been eliminated from the figures in the above statement as explained by an asterisk.

7. The total Receipts during the year, under review, were more than those of the previous year by Rupees 1,34,912. The increase is mainly under Wheel Tax and Tolls, Halalkhore and Water Taxes, Miscellaneous Fees, Market Receipts and interest on investments of Surplus Loan and other balances, partly counterbalanced by decreases under the heads General Tax, Town Duties and Miscellaneous Receipts. The actuals of Receipts were better than the Budget and the Revised by Rupees 6,57,791 and Rupees 2,62,291 respectively. The reasons for the variations have been given in the report of the Chief Accountant.

8. The total expenditure from the Municipal fund during the year, under report, amounted to Rupees 1,20,48,926 against Rupees 1,16,81,587 in the previous year, resulting in an increase of Rupees 3,67,339. The Actuals are better than the Budget and the Revised by Rupees 1,43,140 and Rupees 12,70,094 respectively. When compared with the Actuals of the previous year there are variations under several heads which have been explained in the report of the Chief Accountant.

9. The Budget estimated for a surplus of Rupees 26,644. This surplus was changed into deficit of Rupees 7,04,810 in the Revised Final Estimate, owing mostly to the inclusion of renewed budget grants of previous years. The actuals have, however, resulted in a surplus of Rupees 8,27,575 against a surplus of Rupees 10,50,002 in the previous year. It may be noted that the above surplus of Rupees 8,27,575 has been reduced by Rupees 1,00,000 utilized in writing off the balance of the Plague expenditure which had been outstanding as an advance from Loan Funds.

10. The opening cash balance on the 1st April 1913 was Rupees 4,51,938-5-7. This, together with the total Receipts of the year (inclusive of Debt, Deposits, Advances, &c.), amounted to Rupees 7,08,03,381-7-10. The gross payments during the year amounted to Rupees 7,05,32,702-6-4, thus leaving a balance of Rupees 2,70,679-1-6 on the 31st March 1914.

11. The surplus funds investments on the 31st March 1914 amounted to Rupees 58,07,764-11-2, as per following details, against Rupees 37,98,940-2-5 on the same date last year:—

	Rs.	a.	p.
In Government, &c., Paper with the Bank of Bombay (face value Rs. 31,44,400, including £ 25,000 at Rs. 15 = 1 £) ...	31,22,457	11	8
In Current Account with the following Banks:—			
Hongkong and Shanghai Banking Corporation	20,983	7	1
Comptoir National D'Escompte de Paris	137	4	9
Chartered Bank of India, Australia and China	1,16,153	3	11
National Bank of India, Limited	15,268	4	1
Yokohama Specie Bank, Limited	10,964	13	3
Mercantile Bank of India, Limited	1,21,920	15	3
Bank of India, Limited	1,44,037	4	8
Eastern Bank, Limited	2,55,841	10	6
Total ...	6,85,306	15	6
In Fixed Deposits with the following Banks:—			
Comptoir National D'Escompte de Paris	2,00,000	0	0
Chartered Bank of India, Australia and China	50,000	0	0
National Bank of India, Limited	2,00,000	0	0
Mercantile Bank of India, Limited	5,00,000	0	0
Bank of India, Limited	4,00,000	0	0
Eastern Bank, Limited	6,50,000	0	0
Total ...	20,00,000	0	0
Grand Total ...	58,07,764	11	2

12. The invested balances of the several Loan Funds on the 31st March 1914, amounted to Rs. 38,93,050-15-3 as per following details, against Rs. 21,80,525-14-10 on the same date last year:—

	Rs.	a.	p.
In Government, &c., Paper with the Bank of Bombay (face value Rs. 2,87,000)	2,84,926	4	0
In Current Account with the following Banks:—			
Hongkong and Shanghai Banking Corporation	291	0	9
Chartered Bank of India, Australia and China	342	8	1
National Bank of India, Limited	135	2	3
Yokohama Specie Bank, Limited	206	6	11
Mercantile Bank of India, Limited	286	1	9
Bank of India, Limited	54,498	2	10
Eastern Bank, Limited	2,365	4	8
Total ...	58,124	11	3
Carried over ...	3,43,050	15	3

	Rs.	a.	p.
Brought forward ...	3,43,050	15	3
In Fixed Deposits with the following Banks :—			
National Bank of India, Limited	1,00,000	0	0
Comptoir National D'Escompte de Paris	4,00,000	0	0
Chartered Bank of India, Australia and China	2,50,000	0	0
Bank of Bombay	10,00,000	0	0
Mercantile Bank of India, Limited	3,00,000	0	0
Yokohama Specie Bank, Limited	8,00,000	0	0
Bank of India, Limited	6,00,000	0	0
Eastern Bank, Limited	1,00,000	0	0
Total ...	35,50,000	0	0
Grand Total ..	38,93,050	15	3

13. The above balances of current accounts, in the several Banks have been compared with the Pass Books of the various Banks and found correct, with the exception of the items noted in the margin. The safety receipts for the Government, &c., papers, lodged with the Bank of Bombay, and the Fixed Deposit Receipts of the several Banks, were examined and found to be in order.

A sum of Rs. 7,432-8-9, credited on the 14th March 1914 in the Pass Book of the Bank of Bombay for the Surplus Funds Deposit Account, and two other sums of Rupees 18-1-0 and Rs. 8-1-0 debited on the 17th and 23rd March 1914, respectively, in the above Bank's Pass Book of the Loan Funds Deposit Account, have been included in the Municipal accounts for the year 1914-15 instead of 1913-14 for the reasons stated by the Chief Accountant in statement No. 10 of his annual report.

14. The following is the list of charges, sanctioned during the year 1913-14 by the Municipal Commissioner and paid out of his Discretional Contingent Grant :—

Item No.	Particulars.	Amount. Rs.	a.	p.
1	Advertisement charges paid to Messrs. Bennett & Co. (auctioneers) in connection with the sale of superstructure of a building in set-back line at Shaik Memon Street	8	12	0
2	Cost of a telegram sent to Mr. Midgley Taylor, in connection with tenders for pipes required for the duplication of Tansa main	114	0	0
3	Cost of a telegram sent to Mr. Midgley Taylor, in connection with tenders for pipes required for the duplication of Tansa main	124	8	0
4	Cost of providing sky lights and expanded metal to the Oil Godowns in the Central Stores at Chinchpoogly	200	15	0
5	Cost of a tin of "D" solution purchased from Messrs. Treacher & Co., for the Malaria Department	28	0	0
6	Write off of irrecoverable bills, payable by different parties, for cleaning and repairing house drains during 1911-12 and previous years, *vide* Standing Committee's Resolution No. 14, dated 1st April 1914	120	3	1
7	Write off of irrecoverable bills, of the Water Department, for repairs to meters, *vide* Standing Committee's Resolution No. 6511, dated 28th January 1914	126	12	10
8	Write off of a bill for expenses, incurred by the Road Department, in pulling down a shed at Matunga Road, *vide* Standing Committee's Resolution No. 3978, dated 6th October 1913	3	12	9
9	Write off of an irrecoverable bill, for expenses incurred by the Road Department, in pulling down a house at Dharavi Road, *vide* Standing Committee's Resolution No. 1696, dated 18th June 1913	18	1	6
10	Write off of an irrecoverable *bill* for expenses incurred by the Road Department, in pulling down houses at Mahim Durga Street, *vide* Standing Committee's Resolution No. 201, dated 9th April 1913...	13	1	2
11	Fees paid to Captain F. E. Hardcastle, Marine Surveyor, for inspecting a parcel of Jheria screened Rubble coal alleged to be inferior and mixed with other coal ...	32	0	0
12	Custom Duty paid on absolute water counters and dial received from Messrs. George Kent & Co.	1	5	0
13	Payment of expenses incurred by the Collector of Ahmedabad, in keeping certain halalkhores ready to start for Bombay, on the occasion of the halalkhores' strike in Bombay	9	0	0
14	Safe custody fee paid to the Bank of Bombay in respect of Government Promissory Notes, lodged by the Bombay Telephone Co., with the Bombay Municipality ...	2	0	0
15	Payment of the claim of Miss J. M. A. Lloyd for injuries sustained by her pony in consequence of a portion of the Beach Road at Colaba, having given way, *vide* Standing Committee's Resolution No. 2943 of 14th August 1913	150	0	0
16	Cost of filling in the Municipal well, to the South of the Esplanade Police Court, *vide* Corporation Resolution No. 325 of 14th January 1913	661	14	5
	Carried over ...	1,614	6	1

Item No.	Particulars.	Amount. Rs. a. p.
	Brought forward ...	1,614 6 1
17	Payment of a supplementary bill for Grain Compensation, allowed to men in the Workshops engaged on the work of making a wooden partition in the Assistant Drainage Engineer's room in June 1912	7 5 10
18	Cost of providing drainage arrangement for the cabstand at Queen's Road near Church Gate Station	101 4 11
19	Subscription paid to the Director, Eastern Press Cuttings Bureau, for supplying press cuttings on Municipal affairs, for three months from 18th October 1913 to 17th January 1914	50 0 0
20	Payment of rewards to certain bhungees, at Nadiad and Kaira for rendering assistance in procuring bhungees for the Bombay Municipality, during the strike of halalkhores	16 0 0
21	Payment of expenses incurred for the funerals of 3 firemen who lost their lives in the fire at Tamarind lane on 8th November 1913...	32 8 0
22	Charges for procuring a duplicate copy of 3rd Class Engineer's certificate owned by Mr. N. P. Gomes, a steam roller driver, alleged to have been misplaced by Mr. Hewett	18 12 0
23	Cost of the purchase of 33 copies of "Practical sanitation in India" by Dr. J. A. Turner	330 0 0
24	Write off of the claim against Mr. N. D. Patel, for repairs to the refuge and gas lamp at the junction of Hughes Road & Sandhurst Road broken by his motor car, *vide* Standing Committee Resolution No. 4623 of 12th November 1913	53 12 3
25	Payment of expenses incurred by Mr. B. H. Hewett, while in England in inspecting certain machinery, required by the Municipality and in attending the Imperial Motor Transport Conference at London, in July 1913	148 5 0
26	Compensation paid to Mr. Mohibshah, for his tiger kept in the Victoria Gardens, subject to approval, but who died of an infectious disease contracted in the Gardens	200 0 0
27	Cost of making 10 medicine chests to be kept with the Fire Brigade engines... ...	103 3 3
28	Cost of providing a temporary wooden water trough in connection with the construction of a fountain at the junction of Babulnath and Queen's Road	53 4 0
29	Cost of a telegram sent to the sister of Abraham Mason, Foreman pipe layer, employed on Tansa works syphon No. 8, informing her of her brother's death ...	2f 0 0
	Total Rs. ...	2,749 13 4

15. The amount outstanding on the 31st March 1914 under "Advances-Personal Account of Municipal Officers" was Rs. 24,301-11-2 against Rs. 31,113-7-4 on the same date last year. The former sum includes Rs. 6,185 on account of permanent advances to Municipal Officers, and the remainder, *viz.*, Rs. 18,116-11-2 represents the sums debited to this head pending adjustment.

16. The amounts outstanding on the 31st March 1914 under the heads noted below compare as follows with those on the same date last year:—

	1912-13. Rs. a. p.	1913-14. Rs. a. p.
Departmental works	9,390 8 6	11,294 11 10
Private works	37,932 9 8	33,719 11 0
Workshop	15,773 6 1	23,691 9 1
Total Rs. ...	63,096 8 3	71,705 15 11

17. The amount outstanding on the 31st March 1914, to the debit of "Personal Account of Municipal Contractors" for supplies and services rendered to them and for recoveries due from defaulting contractors was Rs. 21,812-2-2 against Rs. 26,426-15-8 on the same date last year.

18. The amount outstanding on 31st March 1914 under "Miscellaneous advances" aggregated Rs. 3,01,694-0-3 against Rs. 13,48,879-4-9 on the same date last year. The large decrease under this head has been explained in the report of the Chief Accountant.

19. The total expenditure on account of Plague during the year under report met out of the current revenue amounted to Rs. 1,24,682-0-9 against Rs. 1,47,763-0-2 in the preceding year. The total expenditure on this account from the commencement of the Plague that is, from the year 1896-97 to the end of the year 1913-14, amounted to Rs. 78,46,895. During the year under report the balance of Rs. 1,00,000 on account of Plague expenditure advanced from Loan Funds was adjusted, thus the whole of the Plague expenditure outstanding on the books has now been cleared.

20. The scrutiny of collections and outstanding bills for Rates and Taxes for the year 1913-14 and of the previous years :—

Collections.—During the year there were issued by the Assessor and Collector 89,314 net demand Assessment bills, for Property and Wheel Taxes of the value of Rs. 82,96,420-11-4 and 2,901 bills for meter hire for the same year of the value of Rs. 32,598-0-0.

The following figures give the particulars of the bills and collections :—

	Rs.	a.	p.	Rs.	a.	p.
89,167 Bills for Property and Wheel Taxes were issued for 1913-14 of the value of ...				82,90,529	15	8
147 Bills for 1912-1913	.....			5,890	11	8
2,901 Bills for meter hire for 1913-1914	.....			32,598	0	0
92,215				88,29,018	11	4
Add—Government and Port Trust Contributions as per awards	4,51,903	1	7			
Outstandings on 31st March 1913	53,687	8	10			
				5,05,590	10	5
Total amount to be collected ...	.....			88,34,609	5	9
Less—Collections made by the Assessor and Collector	83,24,112	10	7			
Paid by Government and Port Trustees	4,51,903	1	7			
				87,76,015	12	2
				58,593	9	7
Deduct—Amount of bills recalled and cancelled for all years from 1909-10 to 1912-13... ...				8,559	13	9
Total outstanding on 31st March 1914				50,033	11	10
Amount outstanding on 31st March 1913 exclusive of meter hire				53,517	4	5
Deduct—Amount of bills recalled and cancelled during the year for all years prior to 1913-14 exclusive of Rs. 458 on account of meter hire				8,101	13	9
				45,415	6	8
Add—Amount of bills amended and issued during the year				5,890	11	8
				51,306	2	4
Deduct—Amount recovered during the year				46,173	3	5
Balance outstanding on 31st March 1914				5,132	14	11

21. In accordance with the instructions, contained in the Corporation Resolution No. 5294, dated 19th November 1888, all Sinking Fund investments during the year, pertaining to the several loans, were examined with the result that Rs. 6,24,802-15-0 were found to be invested on account of instalments, whereas the amount provided in the Budget for the year 1913-14 was Rs. 6,25,393. The difference of Rs. 590-1-0 is due to an under estimate of the amount of excess accumulations in the different Sinking funds shown at page 111 of the Budget estimate for the year 1913-14. The total accumulated balances on account of the several sinking funds, on the 31st March 1914, amounted to Rs. 1,37,82,442-3-5 (Rs. 1,37,81,569-11-0 in securities of the nominal value of Rs. 1,37,84,500 as given below and Rs. 872-8-5 in cash).

	Nominal Value of Paper.			Actual Cost of Paper.		
	Rs.	a.	p.	Rs.	a.	p.
5 per cent. Municipal Debentures ...	34,66,000	0	0	34,66,000	0	0
4 per cent. do. do. ...	26,11,500	0	0	26,11,316	6	9
4 per cent. Bombay Improvement Trust Bonds	30,53,500	0	0	30,53,551	11	3
3½ per cent. Government Promissory Notes...	41,77,600	0	0	41,74,801	9	0
3 per cent. Government Promissory Notes...	4,75,900	0	0	4,75,900	0	0
Total Rs. ...	1,37,84,500	0	0	1,37,81,569	11	0

The safety receipts, granted by the Bank of Bombay, for the above securities in its custody, have been examined and found to be in order ; and the cash balances in the Bank's Pass Books, of the above funds, have also been verified and found correct.

22. The balances of the several Reserve Funds, *viz.*, the "Municipal Buildings Fire Insurance," Worn "out water mains Renewal" and the "Net Premia" Funds on the 31st

March 1914, amounted to Rs. 8,67,119-10-10 (Rs. 8,66,356-4-0 in securities, of the nominal value of Rs. 8,61,500 as given below, and Rs. 763-6-10 in cash):—

	Nominal Value.			Actual Cost.		
	Rs.	a.	p.	Rs.	a.	p.
Municipal Building Fire Insurance Fund...	1,81,000	0	0	1,82,628	7	0
Worn-out Water Mains Renewal Fund ...	5,37,500	0	0	5,39,793	7	0
Net Premia, &c., Fund	1,43,000	0	0	1,43,934	6	0
Total Rs. ...	8,61,500	0	0	8,66,356	4	0

The Bank's safety receipts for the above securities and the Pass Books, for the cash Balances, have been examined and found to be in order.

23. The safety receipts for securities in Government &c. Papers, received from the Municipal employés and contractors and belonging to the several memorial funds and lodged with the Bank of Bombay, have been examined and found to be in order.

24. The securities furnished by the Municipal employés and on the record of the Chief Accountant's office have also been examined with the registers maintained in his office and found to be in order.

25. The balance of stock in hand on the 31st March 1914 as per books of the Chief Accountant compared with that of the preceding year was as follows:—

Department.	1912-1913.			1913-1914.		
	Rs.	a.	p.	Rs.	a.	p.
Executive Engineer's Department	2,164	14	0	249	6	0
General Stores Department.						
General Stores	3,01,553	0	8	3,01,349	3	6
Surplus and Obsolete Stores	26,868	6	9	8,761	2	8
Line Suspense Account	1,16,397	8	9	1,11,625	4	7
Total Rs. ...	4,44,819	0	2	4,21,735	10	9
Stores (Sales)	15,094	11	4	23,059	3	6
Water Works Imprest	3,283	8	5	3,408	13	8
Stock Adjustment Account	—5,839	6	5	—1,825	11	4
Total Rs. ...	12,538	13	4	25,342	10	8
Grand Total Rs. ...	4,59,522	11	6	4,47,327	11	2

26. In accordance with the instructions contained in para XXIX of the Stores and Stores Audit Manual, a balance sheet of the General Stores Department, has been prepared in the form prescribed in Appendix O of the Manual, giving two sets of figures, one from the books of the Chief Accountant and the other from the Balance sheet of the Storekeeper. The difference in the balance on the 31st March 1914 between the two sets of figures has been explained by a foot-note in the statement hereto annexed.

BHUKHANDAS B. DESAI,

SHIWARAM TRIMBAK THAKUR,

Municipal Auditors.

BOMBAY, *29th August* 1914.

Statement of Stores Transactions for the year ending 31st March 1914.

(Appendix O of the Stores and Stores Audit Manual.)

General Stores Department.	Figures as per Books of the Chief Accountant.					Figures as per Balance Sheet of the Storekeeper.				
	Balance on 31st March 1913.	Receipts during 1913-14.	Total.	Issues during 1913-14.	Balance on 31st March 1914.	Balance on 31st March 1913.	Receipts during 1913-14.	Total.	Issues during 1913-14.	Balance on 31st March 1914.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
General Stores ...	3,01,553 0 8	7,88,651 4 3	10,90,204 4 11	7,88,855 1 5	3,01,349 3 6	2,91,969 14 0	8,05,261 0 8	10,97,230 14 8	8,03,115 5 4	(a) 2,94,115 9 4
Surplus and Obsolete Stores	26,868 6 9	34 15 6	26,903 6 3	18,142 3 7	8,761 2 8	26,868 6 9	391 12 9	27,260 3 6	18,499 0 10	8,761 2 8
Line Suspense Account	1,16,397 8 9	1,220 9 8	1,17,618 2 5	5,992 13 10	1,11,625 4 7	1,16,332 4 9	2,426 11 8	1,18,759 0 5	7,098 11 10	(b) 1,11,660 4 7
Total Rs. ...	4,44,819 0 2	7,89,906 13 5	12,34,725 13 7	8,13,990 2 10	4,21,735 10 9	4,35,170 9 6	8,08,079 9 1	12,43,250 2 7	8,28,713 2 0	4,14,537 0 7
									Difference ...	7,198 10 2
										4,21,735 10 9

(a) The difference of Rs. 7,233-10-2 between the balances on 31st March 1914, as shown above, is mainly due to non-adjustment in the books of the Chief Accountant, of the value of the stores issued to the Fire Brigade, Executive Engineer, &c., Departments owing to grants having been found insufficient to the excesses, and deficiencies, shown in the verification sheets not having been adjusted during the year under report, and to some minor adjustments, which will be made in the accounts for 1914-15, on receipt of complete information and documents from the different Departments.

(b) The difference of Rs. 35 is due to the amount recovered in the last week of the past official year from a party on account of damage done to the 24" C. I. Bend at Kurla not having been accounted for by the Storekeeper during that year.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

BOMBAY, 29*th August* 1914.

MUNICIPAL OFFICES,
BOMBAY, *30th May* 1914.

FROM

THE MUNICIPAL AUDITORS,
BOMBAY:

TO

THE MUNICIPAL SECRETARY,
BOMBAY.

SIR,

In accordance with Section 137 of the Bombay Municipal Act of 1888 we have the honour to forward herewith the three Appendices marked A, B and C, containing the result of the scrutiny of the outstanding Bills of Rates and Taxes, which were in the hands of Ward Clerks and in the office of the Assessor and Collector on the 31st March 1914.

2. These Appendices form part of the Annual Report on the Municipal Accounts for the year 1913-14 now under preparation.

We have the honour to be,

Sir,

Your most obedient Servants,

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

Appendix A.

STATEMENT OF OUTSTANDING BILLS OF RATES AND TAXES in the hands of the Ward Clerks and in the Office of the Assessor and Collector on the 31st March 1914.

Wards.	No. of Bills.	Amount. On Value. General Tax.	Water Tax.	Halalkhor Tax.	Total.	Compounded or Special. Compound Water Service.	Special Halalkhor Service.	Water Charged by Meter.	Tax on Vehicles and Animals.	Meter Hire.	Grand Total.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
A. ...	81	2,134 10 5	342 3 4	648 6 11	3,125 4 8	...	.....	123 4 7	323 11 0	32 0 0	3,604 4 8	
A.—Government, Port Trust and Railways.	110	4,752 12 10	9 4 8	114 3 11	4,876 5 6	37 3 4	2,079 7 7	13,264 3 5	12 0 0	30 0 0	20,399 3 4	
A.—City Improvement Trust.	8	1,796 8 10	286 14 11	255 4 5	2,338 12 2	...	.....	.....	.....	.....	2,338 12 2	
B ...	51	3,695 2 2	1,105 6 10	1,143 4 7	5,943 13 7	...	.....	71 8 0	67 11 0	.....	6,083 0 7	
C ...	56	1,670 13 1	624 2 11	528 12 6	2,823 12 5	...	.....	155 2 6	53 0 0	.....	3,036 14 5	
D ...	70	2,495 4 8	655 5 11	714 4 1	3,864 14 8	...	.....	1,202 6 5	481 12 0	.....	5,499 1 1	Of these 8 bills amounting to Rs. 87-1-1 are certified by the Assessor and Collector to have been deposited in the Court of Small Causes for which decree has been obtained.
E ...	68	1,725 12 11	596 15 3	536 6 8	2,859 2 10	1 0 0	.....	29 0 0	357 6 0	.....	3,246 8 10	
F ...	10	136 2 3	9 10 9	41 4 9	187 2 2	...	.....	15 0 0	4 0 0	.....	206 2 2	
G ...	29	295 2 8	71 11 9	88 13 10	455 12 3	...	.....	26 1 10	5 0 0	.....	486 14 1	
Total ...	472	18,702 6 3	3,701 11 11	4,070 13 7	26,474 15 9	38 3 4	2,079 7 7	14,986 10 3	1,259 8 0	62 0 0	44,900 12 11	

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

MUNICIPAL OFFICES,
BOMBAY, *30th May* 1914.

Appendix B.

STATEMENT OF OUTSTANDING BILLS OF RATES AND TAXES in arrears for the year 1912-13 and previous years in the hands of the Ward Clerks and in the Office of the Assessor and Collector on the 31st March 1914.

Wards.	No. of Bills.	Amount. On Value. General Tax.	Water Tax.	Halalkhor Tax.	Total.	Compounded or Special. Compound Water Service.	Special Halalkhor Service.	Water Charged by Meter.	Tax on Vehicles and Animals.	Grand Total.	
		FOR THE YEAR 1912-13.									
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
A	20	570 6 5	73 6 6	162 1 4	805 14 3	.....	.....	127 14 8	25 0 0	958 12 11	
C	2	65 9 11	9 11 4	8 10 2	83 15 5	.....	.....	.....	.....	83 15 5	
D	2	45 11 0	14 8 2	12 14 4	73 1 6	.....	.....	.....	.....	73 1 6	Certified by the Assessor and Collector to have been deposited in the Court of Small Causes for which decree has been obtained.
E	6	113 14 4	35 7 0	31 8 0	180 13 4	.....	.....	.....	.....	180 13 4	
F	4	99 6 8	.....	27 10 4	127 1 0	.....	.....	29 13 0	.....	156 14 0	
G	1	1 7 3	1 1 7	.....	2 8 10	.....	.....	.....	.....	2 8 10	
Total ...	35	896 7 7	134 2 7	242 12 2	1,273 6 4	.....	.....	157 11 8	25 0 0	1,456 2 0	
Carried over.	35	896 7 7	134 2 7	242 12 2	1,273 6 4	.....	.....	157 11 8	25 0 0	1,456 2 0	

Appendix B—*contd.*

Wards.	No. of Bills.	Amount. On Value. General Tax.	Water Tax.	Halalkhor Tax.	Total.	Compounded or Special. Compound Water Service.	Special Halalkhor Service.	Water Charged by Meter.	Tax on Vehicles and Animals.	Grand Total.	
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Brought forward ...	35	896 7 7	134 2 7	242 12 2	1,273 6 4	.....	.....	157 11 8	25 0 0	1,456 2 0	
				FOR THE YEAR 1911-12.							
A	13	697 4 3	146 13 0	197 13 8	1,041 14 11	.....	.....	87 7 0	10 0 0	1,089 5 11	
B	4	.....	.....	.....	.....	.....	.....	.....	33 0 0	33 0 0	
D	2	45 11 0	14 8 2	12 14 4	73 1 6	.....	.....	.....	.....	73 1 6	Certified by the Assessor and Collector to have been deposited in the Court of Small Causes for which decree has been obtained.
E	3	0 11 3	4 6 2	3 14 5	8 15 10	.....	.....	.....	34 0 0	42 15 10	Of these one still for Rs. 8-15-10 is certified by the Assessor and Collector to have been deposited in the Court of Small Causes for which decree has been obtained.
F	1	30 13 0	.....	8 11 2	39 8 2	.....	.....	.....	.....	39 8 2	
Total ...	23	774 7 6	165 11 4	223 5 7	1,163 8 5	.....	.....	87 7 0	77 0 0	1,277 15 5	
				FOR THE YEAR 1910-11.							
A	7	1,164 12 3	369 15 9	.....	1,534 12 0	.....	766 8 0	.....	22 0 0	2,323 4 0	Certified by the Assessor and Collector to have been deposited in the Court of Small Causes for which decree has been obtained.
D	1	22 13 6	7 4 1	6 7 2	36 8 9	.....	.....	.....	.....	36 8 9	
Total ...	8	1,187 9 9	377 8 10	6 7 2	1,571 4 9	.....	766 8 0	.....	22 0 0	2,359 12 9	
				FOR THE YEAR 1909-10.							
B	2	.....	.....	.....	.....	.....	.....	.....	27 8 8	27 8 8	
				FOR THE YEAR 1908-09.							
A	1	.....	.....	.....	.....	.....	.....	.....	1 14 1	1 14 1	
				FOR THE YEAR 1907-08.							
B	1	.....	.....	.....	.....	.....	.....	.....	9 10 0	9 10 0	
Grand Total	70	2,858 8 10	677 1 9	472 8 11	4,008 8 6	.....	766 8 0	195 2 8	163 0 9	5,132 14 11	

MUNICIPAL OFFICES,
BOMBAY, *30th May* 1914.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

Appendix C.

SUMMARY OF APPENDICES **A** AND **B.**

Years.	Appendix A. No. of Bills.	Appendix A. Amount.	Appendix B. No. of Bills.	Appendix B. Amount.	Grand Total. No. of Bills.	Grand Total. Amount.
		Rs. a. p.		Rs. a. p.		Rs. a. p.
1913-1914	472	44,900 12 11	.....	.....	472	44,900 12 11
1912-1913	.....	.....	35	1,456 2 0	35	1,456 2 0
1911-1912	.....	.....	23	1,277 15 5	23	1,277 15 5
1910-1911	.....	.....	8	2,359 12 9	8	2,359 12 9
1909-1910	.....	.....	2	27 8 8	2	27 8 8
1908-1909	.....	.....	1	1 14 1	1	1 14 1
1907-1908	.....	.....	1	9 10 0	1	9 10 0
Total ...	472	44,900 12 11	70	5,132 14 11	542	50,033 11 10

Outstanding amount on the same date last year was Rs. 53,687-8-10.

MUNICIPAL OFFICES,
BOMBAY, *30th May* 1914.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

BOMBAY, *4th August* 1914.

FROM

THE MUNICIPAL AUDITORS,
BOMBAY.

To

THE MUNICIPAL SECRETARY,
BOMBAY.

SIR,

We have the honour to forward herewith our Report on the Accounts of the Schools Committee for the year 1913-14.

We have the honour to be,
Sir,
Your most obedient servants,

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

REPORT ON THE ACCOUNTS OF THE SCHOOL FUND FOR THE YEAR 1913-14.

In accordance with Bye-law No. 15 of the Schools Committee, we beg to report that we have audited the accounts, examined all vouchers, relating to Receipts and Disbursements of the School Fund in charge of the Schools Committee from the 1st April 1913 to 31st March 1914, and found them in order. Some irregularities, found in the course of audit, will be reported to the Secretary for necessary action.

2. The total receipts of the School Fund, during the year under report, amounted to Rs. 4,37,505-9-3 against Rs. 3,68,837-14-0 during the year 1912-13. The excess of Rs. 68,667-11-3, in receipts over the preceding year, is mainly due to increase in the amount of contribution, paid to the Schools Committee from the Municipal General Fund.

3. The total expenditure during the year 1913-14 amounted to Rs. 4,37,815-12-0 against Rupees 3,78,088-1-0 in the year 1912-13. Thus there has been an increase of Rs. 59,727-11-0 in the expenditure over that of the previous year. The causes for the increased expenditure have been explained by the Secretary in his report on the administration of the Schools Committee for the year under report.

4. It will be seen from the foregoing paras. 2 and 3 that the total outgoings were greater than the total receipts by Rs. 310-2-9 during the year. The deficit was made good from the cash balance brought forward from the previous year.

5. Under certain heads more expenditure was booked than the Budget grants. The excesses have, however, been sanctioned to be met from savings under other heads, *vide* the School Committee's Resolution No. 146, dated 8th July 1914.

6. In the month of March 1914 Government Promissory Notes of the nominal value of Rs. 25,000 were sold to replenish the cash balance, required to meet payments, and thus the investment of Rs. 50,000 was reduced to Rs. 25,000.

7. The total assests and workable balance of the School Fund on the 31st March 1914 amounted to Rs. 70,853-6-3 and Rs. 63,542-9-11, respectively, as per details given below :—

Advances recoverable		Rs.	287 0 0
Government Promissory Notes deposited by Contractors and kept for safe custody in the Bank of Bombay (nominal value).		„	2,100 0 0
Government Promissory Notes and other Securities belonging to Prize Funds, deposited for safe custody with the Bank of Bombay (nominal value)		„	4,000 0 0
Government Promissory Notes of the nominal value of Rs. 25,000 deposited for safe custody with the Bank of Bombay on account of investment of Surplus Cash Balance (actual value).		„	24,109 6 0
Cash Balance—			
In Bank of Bombay	Rs. 40,308 10 3		
In Office Treasury	„ 48 6 0		
		„	40,357 0 3
Total Amount of Assets ...		Rs.	70,853 6 3
Deduct—			
Total Liabilities of the School Fund :—			
On account of Prize Funds, &c. ...	Rs. 4,488 11 5		
On account of Deposit Accounts ...	„ 2,822 0 11		
		„	7,310 12 4
Total amount of workable balance of the School Fund on 31st March 1914		Rs.	63,542 9 11

8. The Balance in the Pass Book of the Bank of Bombay was verified by us and found correct and the safety receipts for the Government paper, &c., lodged with the Bank of Bombay, were examined by us and found to be in order.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

BOMBAY, *4th August* 1914.

PART II.

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PUBLIC HEALTH.

Annual Report of the Executive Health Officer for 1913.

I have the honour to submit my Annual Report on the Conditions and Administration of the Public Health of Bombay during 1913.

Area and Population.

The area of the City and Island is 22·55 square miles; and the number of persons residing in the area in the ratio of 67 per acre.

Calculations of birth and death-rates in this Report have been based on the population (979,445) enumerated at the Census of 1911.

Review of climatic and Health Conditions of 1913.

The climatic conditions during the year may be considered to have been favourable. The rainfall recorded at the Colaba Government Observatory was 70·96—more plentiful than in previous years since 1910 and nearly approached what has been considered normal for the City (71·15). It was 54·05 inches in 1912, 46·51 in 1911 and 67·86 in 1910.

Only twice in the last decade (1904-1913) has the annual average been exceeded—namely in 1907 and 1909 when 100·78 and 71·22 inches were measured.

Rain fell on 94 days during the year against 87 in 1912, 92 in 1911 and 104 in 1910.

The rainfall was distributed monthly as follows:—25·81 inches on 21 days in June; 33·58 inches on 30 days in July; 3·45 inches on 22 days in August; 5·75 inches on 16 days in September; and 2·35 inches on 5 days in October. The maximum monthly rainfall was 33·58 in July against 25·77 in the same month in 1912; 16·90 inches in August 1911, and 23·92 inches in June in 1910.

Readings of the Thermometer.

MONTHS.	1908.			1909.			1910.			1911.			1912.			1913.		
	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.
January ..	84·6	75·6	68·4	79·6	73·0	62·7	85·1	74·7	61·4	88·4	75·5	63·1	88·5	76·9	66·4	84·5	75·7	65·4
February ..	89·4	75·4	62·3	83·0	74·8	66·1	86·4	77·0	66·6	90·2	75·6	59·2	88·0	77·8	66·7	84·6	76·5	64·8
March ..	86·4	77·6	65·4	87·2	79·8	71·0	90·4	79·7	66·7	85·6	78·7	70·4	89·2	79·9	70·8	86·0	77·6	69·3
April ..	94·2	83·3	75·9	90·1	83·2	73·9	88·6	83·9	75·5	88·6	81·2	73·4	90·7	84·5	76·2	89·3	82·7	72·5
May ..	90·4	85·1	79·2	91·2	86·2	80·4	90·2	84·2	77·8	91·3	85·6	79·4	91·9	86·5	79·4	92·4	86·5	79·4
June ..	91·4	84·6	77·4	91·4	83·8	76·0	92·6	83·1	76·2	90·4	83·7	77·4	93·4	85·4	76·8	93·0	83·7	74·8
July ..	84·8	80·9	75·9	85·6	80·2	75·6	87·4	82·4	77·3	88·0	82·1	75·8	87·4	82·1	76·9	86·6	81·5	74·8
August ..	88·2	79·9	76·3	85·4	80·8	75·8	85·2	80·3	75·6	84·6	80·3	74·8	85·3	81·0	75·5	85·6	81·4	75·7
September ..	87·8	81·1	73·1	84·4	79·5	74·1	84·8	79·3	74·4	85·5	81·4	77·0	87·3	81·8	76·4	87·1	81·2	75·0
October ..	88·2	82·0	73·2	88·2	80·6	73·0	89·2	81·0	73·2	90·2	82·9	74·4	91·3	83·6	74·2	89·4	82·7	75·0
November ..	86·4	78·6	69·4	88·1	79·5	69·4	87·4	78·2	67·8	90·8	81·3	74·3	91·6	80·3	68·6	89·2	79·8	70·5
December ..	86·2	75·2	65·4	85·3	76·1	67·1	87·0	75·8	66·3	89·2	80·2	70·6	85·9	77·6	68·4	87·0	76·6	64·7

Compared with previous years, the general health conditions of the City were in several respects remarkably good. They were not marred by the epidemic incidence of any disease except Plague. The total death-rate (32·47) was the lowest since the commencement of Plague in 1896. The incidence of Plague, though higher than in 1912, was lower than in any other year. The death-rate from Tubercular Diseases was the lowest so far as their history in the City can be traced (1878). The infantile mortality was the lowest since 1896 (7,488). The number of deaths from Small-pox (212) was the smallest since 1902, except in 1907 when it was 86; that from Fevers (3,043) smallest since 1906, except in 1909 when it was 2,800.

Plague was epidemic from the week ended 1st March to that ended 7th June.

If the deaths from Plague be excluded, the death-rate works out to 29·80 per mille and is found to be lower than the annual average (30·64) of the quinquennium (1891-1895) before the appearance of the disease.

The number of *live* births registered (19,644), however, was the lowest since 1908.

The number of still-births was 1,592, the lowest since 1899, except in 1910 (1,568) as will be seen from the following table:—

Year.	No. of Still-births.
1899	1,955
1900	2,062
1901	2,153
1902	2,017
1903	1,818
1904	2,033
1905	2,073
1906	2,193
1907	1,837
1908	1,918
1909	1,806
1910	1,568
1911	1,759
1912	1,668
1913	**1,592**

Comparison with the Health Conditions of 1912.

Compared with 1912, the mortality from all causes (31,806) shows a gain to the City of 7,148 lives, of which 2,158 were infants or children up to 1 year of age and 1,169 were children between 1 to 5 years.

If the several heads of registration be scrutinized, it will be found that the only increases registered were under the following:—Measles+12, Plague+892, Influenza+1, Diseases of the Generative System+5 and "other local diseases"+7.

Under every other cause of death a large decrease was recorded, *e.g.*—

Cause of Death.	*Decrease.*
Small-pox	767
Fevers	542
Malarial Fever	99
Cholera	1,665
Diarrhœa	634
Dysentery	737
Puerperal Septicæmia	136
Debility	414
Old Age	453
Tubercle of Lungs	548
Other Tubercular Diseases	94
Other General Diseases	362
Diseases of the Nervous System	271
„ „ Respiratory System	1,082
„ „ Digestive System	123
„ „ Urinary System	84

The total death-rate works out to 32·47 against 39·77 in 1912.

The number of *live* births registered was 19,644, being 1,874 less than in 1912.

The following Table showing Births and Deaths registered from principal causes, in the City during 1913 and the preceding decennium (1903-1912) is intended to assist in gauging the improvement which the health conditions of the City in 1913 revealed in comparison with those of the preceding decade.

TABLE OF BIRTHS AND DEATHS REGISTERED FROM PRINCIPAL CAUSES DURING 1903-1913 :—

Year.	Births.	Small-pox.	Measles.	Plague.	Fevers.	Cholera.	Diarrhœa and Dysentery.	Tubercle of Lungs and other Tubercular Diseases (including Phthisis.)	Diseases of the Respiratory System.	All Causes.
1903...	16,375	1,477	1,115	20,788	2,500	17	2,760	3,468	7,101	50,513
1904...	19,556	668	239	13,538	2,550	219	2,784	3,548	7,339	42,676
1905...	19,141	2,161	630	14,198	2,878	26	3,391	3,183	9,103	47,762
1906...	20,769	276	936	10,823	4,882	1,241	4,778	4,052	11,731	52,874
1907...	19,535	86	107	6,389	3,633	439	3,489	3,440	9,022	38,687
1908...	20,166	1,026	653	5,361	3,403	95	3,184	3,023	8,954	38,271
1909...	19,839	473	75	5,197	2,800	727	2,585	2,862	7,974	34,878
1910...	19,939	1,008	184	3,656	3,113	107	3,352	2,839	8,212	34,933
1911...	21,376	443	652	4,006	3,146	123	3,075	2,694	8,640	34,961
1912...	21,518	979	210	1,717	3,585	1,790	4,544	2,794	9,688	38,954
Average (1903-1912)	19,821	849	478	8,567	3,247	478	3,394	3,190	8,776	41,450
1913...	19,644	212	222	2,809	3,043	125	3,173	2,152	8,604	31,806
Comparison with 1912	— 1,874	— 767	+ 12	+ 892	— 542	— 1,665	— 1,371	— 642	— 1,082	— 7,148
Comparison with Average (1903-1912)	— 177	— 637	— 256	— 5,958	— 204	— 353	— 221	— 1,038	— 172	— 9,644

Compared with the decennial averages, enormous reductions will be noticed in the mortality from all principal causes :—5,958 under Plague, 1,038 under Tubercular Diseases, 637 under Small-pox, 353 under Cholera, 256 under Measles, 221 under Diarrhœa and Dysentery, 204 under Fevers and 172 under Diseases of the Respiratory System. Comparison with the preceding decennium (1903-1912).

The number of deaths registered from Small-pox (212) was the lowest since 1901, except in 1907 when it was lower by 126. The mortality from Plague was the lowest since 1896, except in 1912 when it was lower by 892. The number of deaths registered under Tubercular Diseases (2,152) was the lowest on record (since 1878). The resultant total decrease (under all causes) was 9,644.

The number of *live* births registered was, however, 177 less than the decennial average (19,821).

The following Table gives the number of births registered in the City and the Birth-rates per 1,000 of population during 1901-1913 :— Births and Birth-rate.

TABLE OF BIRTHS AND BIRTH-RATES DURING 1901-1913.

Year.	Population.	No. of Births registered.	Birth-rate per 1,000 of Population.
1901	7,76,006	18,520	17·42
1902		17,599	22·67
1903		16,375	21·10
1904		19,556	25·20
1905		19,141	24·66
1906	9,77,822	20,769	21·24
1907		19,535	19·97
1908		20,166	20·62
1909		19,839	20·28
1910		19,939	20·39
1911	9,79,445	21,376	21·82
1912		21,518	21.96
1913		19,644	20·05

The number of births registered during the year, excluding 1,592 still-births, was 19,644, the lowest since 1908. Thus 1,874 fewer births were returned than in 1912 and 177 less than the decennial average (19,821).

The birth-rate per 1,000 of population works out to 20·05 against 21·96 in 1912 and was the lowest since 1902 excepting 1907.

It will be noticed that only 1,797 *live* births were registered in the first month of the year against 1,811 in 1911 and 2,071 in 1912. The number then steadily declined until 1,289 were registered in May: this was the smallest number returned in a month during the year against 1,509 in the same month of 1911 and 1,552 in June 1912.

Thus from the very commencement of the year, the Department was faced with the problem of declining returns.

At the end of the first quarter the decrease of 955 was noticed—compared with 1912; and in my Report for the period I observed: "It is a little difficult to account for this sudden diminution in the number of registered births; it cannot be explained by any slackening of efforts on the part of this Department in finding out new births; on the contrary, since the first signs of decrease were discovered, efforts were redoubled. There has, however, been some displacement of population in certain Sections of the City, owing to demolition of houses or replacement of old structures by iron-ware houses as a result of the operations of the City Improvement Trust; but if the displaced population went to live in other Sections, these should have shown a corresponding increase. But it is not so. It seems probable, therefore, that the difficulty of finding suitable accommodation may have led to a temporary emigration of the female population to their native homes in the country around. This view is strengthened by the fact that the Vaccination Department is not detecting a larger number of unregistered children born in Bombay."

The second quarter of the year compared with that of 1912 showed a decrease of 923 births.

And with a view to finding out, if possible, the cause or causes responsible for these declining returns, a Census was taken on 31st May of children up to 2 years of age in some of the thickly populated chawls, especially in poorer localities selected from the different Wards of the City.

The evening hours of 5-30 to 7-30 were fixed for enumeration as being the most favourable, when all children and mothers could be expected to be in their lodging.

The count was taken with the assistance of the Deputy Health Officers, Registration, Inspectorial and Clerical Staff of the Department. Forty-seven chawls were selected in all—and included five chawls of the City Improvement Trust—one each at Agripada, Mandvi-Koliwada and Imamwada and two at Chandanwadi, at each of these latter, we had, thanks to the co-operation of the Chairman of the Trust, the assistance of two of their staff.

The following are a few broad facts which emerged from the Census:—

(1) The total population enumerated in all the 47 chawls together was 26,506; and the number of children up to two years of age 1,060.

(2) The number of births registered among them was 494, giving the ratio of 18·63 per 1,000 of population in the selected chawls, against 20·25 for the whole City in 1912-13 and 20·97 the average of the previous corresponding five years.

(3) The proportion of children enumerated (up to 2 years of age) to the total enumerated population was 3·99 or roughly 4 per cent.; the proportion of such children to the total population of the City by the Census of 1911 was 2·28 or roughly 2·3.

(4) 514 children out of 1,060 enumerated were those born out of Bombay, *i.e.*, 48·5 per cent.; the average number of such children in the City during the last five years was 36·3 per cent. of the total number of children up to two years by the Census of 1911.

(5) Of the 546 children found to be born in the City, 494 or 90·47 per cent. were registered; and 52 or 9·53 escaped registration.

(6) Facts enumerated under (3) and (4) would seem to point to the existence in the City, on 31st May (1913), of a larger proportion of children up to two years of age, than that established by the Census of 1911; and to the existence of a larger number of out-born children than the average number of such children during the preceding five years.

DIAGRAM

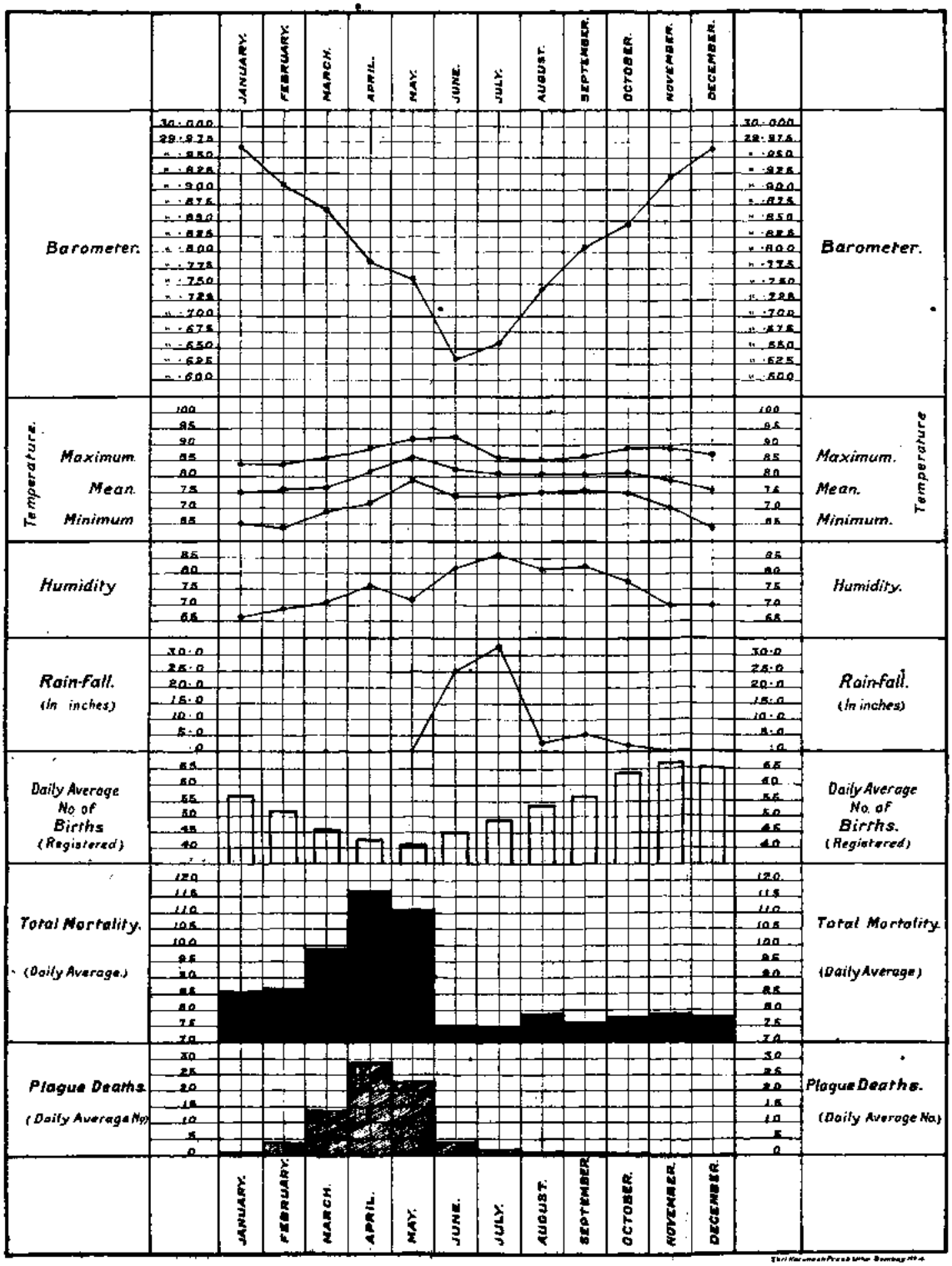
WEEKLY TOTAL AND PLAGUE MORTALITY

IN

1912 & 1913.

DIAGRAM

DAILY MEAN BIRTHS, DEATHS AND CLIMATIC CONDITIONS IN BOMBAY DURING THE SEVERAL MONTHS OF 1913.



These deductions would appear to suggest that the decrease in the number of births registered was, to a considerable extent, due to the operation of several forces compelling a temporary emigration of the female population.

But what is of more interest, and more to our purpose, is the opportunity afforded for approximately assessing the proportion of births that escape registration; this was hitherto quite an "unknown quantity."

The Census of the chawls, however, shows that 9·5 per cent. of the children up to two years of age living in them were not registered; in other words, the proportion of births that escape registration to births actually registered is 10·5 per cent. It would not be safe to assume that this ratio holds good for the rest of the population of those ages; nevertheless, it should prove a useful guide in urging on the efforts of the staff to a more complete registration.

Of the total number of births registered (19,644), 10,006 were male and 9,638 female; the male births were therefore to the female births in the proportion of 1,038 to 1,000; the respective birth-rates per 1,000 of sex population being 15·62 and 28·41 against 17·29 and 30·79 in 1912.

The birth-rate per 1,000 of population works out to 20·05 against 21·96 in 1912.

I have pointed out in my previous Reports that the birth-rate stated in terms of total population (crude birth-rate) must vary with the proportion of females of conceptive ages in the population and with the age-constitution of the married female population, and that the comparison of birth-rates should therefore be based not only on the total number of population but also on the number of potential mothers. If, therefore, the birth-rate for 1913 is calculated on the number of possible mothers disclosed by the Census of 1911, it comes to 94·20 against 103·19 in 1912 and 93·93 in 1906 when the number of possible mothers (women aged 15-45 years) was greater than that of 1911. The results of calculating the proportion of registered births (1) to the total population of both sexes and all ages and (2) to the female population aged 15-45 years are embodied in the following Table:—

CENSUS YEAR.	Proportion per cent. of women aged 15-45 years in the total population of both sexes and all ages.	Proportion per cent. of married women in female population aged 15-45 years.	Of the married women aged 15—45 years, the proportion per cent. of four groups of ages,				Persons married to 1,000 marriageable persons in the population.	Birth-rate calculated		
			Aged 15—20 years.	Aged 20—25 years.	Aged 25—35 years.	Aged 35—45 years.		On the number of Births registered in	Per 1,000 of total population at all ages.	Per 1,000 o female Population aged 15—45 years.
1901	22·05	77·08	13·55	25·80	39·35	16·49	714·24	1901	17·42	79·00
1906	22·61	77·04	17·62	27·69	39·99	14·77	738·45	1905	21·24	93·93
1911	21·38	76·75	13·25	27·30	39·69	14·75	713·75	1913	20·05	94·20

Besides the factors which influence in common the birth-rate of every community, there are some peculiar to this City:—(1) the fairly well-established custom of sending prospective mothers home to their parents, where the baby has a better chance of life—so that there is in the City a number of children of mothers belonging to but born outside the City and therefore not registered; (2) the omission of parents or relatives to register births, through ignorance or neglect—so that there is a considerable number of children who have escaped registration.

Corrected number of Births and Birth-rate.

During 1913, 6,897 of such children under one year of age were primarily vaccinated in Bombay; but a large number must have escaped vaccination either by death or postponement. It will be seen from Table 22, appended to the Report, that 83·91 per cent. of the births registered were vaccinated during the year; it may therefore be assumed that 83·91 per cent. of the unregistered children also were vaccinated, the balance of 16·09 per cent. having escaped vaccination either by death or postponement.

Thus the infant population in the City during the year under report works out as follows:—

Number of Births registered	19,644
Number of Births unregistered (of children primarily vaccinated in Bombay)	6,897
Number of Births unregistered and which escaped vaccination (being 16·09 per cent)...	1,322
Total number of Births ...	27,863

giving the birth-rate of 28·44 per 1,000 of population compared with 38·95, the birth-rate for the whole of India.

Prosecution for Omission to report births.

Action under Section 446 (1) of the City of Bombay Municipal Act for failure to notify the occurrence of births to this Department was taken only in one case during the year: the parties were warned and discharged by the Presidency Magistrate.

Births by Months

MONTHS.	No. of Births registered in 1913.	No. of Births registered in 1912.	No. of Births registered in 1911.
January	1,797	2,071	1,811
February	1,479	1,793	1,572
March	1,444	1,811	1,717
April	1,300	1,643	1,538
May	1,289	1,669	1,509
June	1,352	1,552	1,592
July	1,533	1,684	1,732
August	1,681	1,754	1,785
September	1,736	1,746	1,935
October	1,993	1,864	2,051
November	2,013	1,931	2,089
December	2,027	2,000	2,045
TOTAL ...	19,644	21,518	21,376

From the month of June, the number of registered births rose steadily and the close of the third quarter revealed the attenuated decrease of 234 in comparison with the corresponding quarter of 1912.

This decrease further corrected itself during the next three months, which recorded an increase of 238 over the last quarter of 1912; and thus, as expected, the heavy decline noticed in the earlier months proved to be only a passing phase induced by causes and conditions of only a temporary nature.

Decline in Birth-rate.

It may, however, be remarked that the decline in the birth-rate appears to be not peculiar to Bombay City only but to be almost general. The Registrar General of England and Wales points out (Report for 1910) that in 1876 the birth-rate in that country attained the highest point on record, namely, 36·3 per 1,000 living; since this date the ratio has, with a few insignificant exceptions, fallen year by year. It was 26·3 in 1907 and declined to 25·1 in 1910 and in 1911 to 24·4, the lowest rate on record.

In India the maximum appears to have been registered in 1904 (40·8); the rate gradually declined to 36·6 in 1909 and was 38·5 for 1911.

In the Presidency of Bombay during a period of 18 years from 1894 to 1912 the highest birth-rate was registered in 1910 (37·3); the next lower (36·7) being in 1895; it declined to 36 in 1911 and to 34·9 in 1912.

In Bombay City the highest birth-rate on record is 25·2 registered in 1904; this is, however, much higher than the maximum for Calcutta (21·7), which was recently reached (1911). Since 1904 the ratio has fallen in Bombay. The variations have not been considerable, except in 1906, when the rate fell to 21·2 from 24·6 in the preceding year. The rate for 1913 (20) stands out the lowest since 1908; 17·4 having been registered in 1901 and 19·97 in 1907.

The highest number of births was, as usual, registered in the fourth quarter of the year (6,033 against 5,795 in 1912) and the lowest in the second quarter (3,941 against 4,864 in 1912).

The highest number of births registered in a single month was 2,027 in December against 2,071 in January 1912 and the lowest 1,289 in May against 1,552 in the month of June 1912.

The number of births registered during the first five months of the year under review appears to have gradually declined, month after month, but during the remaining seven months there has been a steady increase. The number of births (8,661) registered during the first six months is less by 1,878 than that (10,539) registered during the same period of the preceding year but during the remaining six months of the year the number (10,983) increased by 4 (10,979).

TABLE OF BIRTH-RATES FOR THE DIFFERENT RACES OF THE CITY FOR 1912 AND 1913.

	RACE OR CASTE.	Population by the Census of 1911.	Birth-rate for 1912.	Birth-rate for 1913.
Hindus.	Jains	20,460	13·58	18·37
	Brahmins	53,656	10·10	7·88
	Lingaits	1,179	34·77	33·07
	Bhatias	7,780	16·70	15·42
	Hindus of other Castes	547,192	18·58	16·78
	Hindus, low-Caste	54,235	60·95	53·63
Mussalmans (including Negro-Africans)		179,346	23·17	20·94
Parsees		50,931	26·56	25·77
Jews		6,597	34·10	30·92
Native Christians		41,273	24·05	23·64
Eurasians		4,188	20·29	26·98
Europeans		11,894	19·00	17·15
Buddhists		578	1·73	22·49
Other and Unknown Castes		136	102·94	80·88
	Total	979,445	21·96	20·05

Birth-rate by Races.

The birth-rate registered for the whole population was 20·05 against 21·96 in 1912 and was the lowest of all subsequent years since 1907.

Taking the Hindu Communities as a whole, the birth-rate registered by them works out to 19·07 against 21·13 in 1912.

Among the different races inhabiting the City, Hindus, low-Caste and Lingaits, recorded the highest rates during the year as in the preceding, 53·63 being registered by the former and 33·07 by the latter against 60·95 and 34·77 respectively in 1912; the lowest rate (7·88) was recorded by Brahmins against 1·73 by Buddhists in 1912.

During the year, only Jains, Eurasians and Buddhists showed an improvement in the birth-rate, 18·37 being registered among Jains, 26·98 among Eurasians and 22·49 among Buddhists against 13·58, 20·29 and 1·73 respectively in 1912. All the other races registered a decline. The birth-rate among Jews dropped from 34·10 to 30·92, among Mussalmans (including Negro-Africans) from 23·17 to 20·94, Hindus of other Castes from 18·58 to 16·78 and Europeans from 19·00 to 17·15. Bhatias recorded the rate of 15·42, Parsees of 25·77 and Native Christians of 23·64 against 16·70, 26·56 and 24·05 respectively in 1912.

TABLE OF BIRTH-RATES FOR THE DIFFERENT SECTIONS IN THE CITY FOR 1912 and 1913.

Ward.	Sections.	Population by the Census of 1911.	Birth-rate for 1912.	Birth-rate for 1913.
A	Upper Colaba	1,557	62·94	61·01
	Middle and Lower Colaba	19,679	14·02	13·72
	Fort, Southern	3,462	6·93	3·46
	Fort, Northern	25,400	19·05	19·29
	Esplanade	17,761	11·26	10·97
B	Mandvi	33,202	14·66	12·34
	Chukla	24,231	22·69	19·02
	Umarkhadi	45,679	26·37	22·83
	Dongri	27,246	22·71	19·48
C	Market	30,172	10·60	10·07
	Dhobi Talao	38,684	21·61	20·33
	Fanaswadi	27,403	19·12	20·36
	Bhuleshwar	36,459	16·89	15·46
	Khara Talao	22,979	21·10	20·67
	Kumbharwada	27,703	21·73	20·17
D	Khetwadi	31,937	21·26	20·35
	Girgaum	30,779	20·20	19·78
	Chaupati	11,397	19·04	20·61
	Walkeshwar	10,640	20·86	19·54
	Mahalakshmi	26,362	21·97	21·55
E	Mazagon	30,075	27·56	24·83
	Tarwadi	28,424	33·42	30·08
	Second Nagpada	21,760	26·12	24·23
	Kamathipura	36,751	24·38	20·27
	Tardeo	27,758	26·26	23·92
	Byculla	75,348	32·15	23·76
	First Nagpada	6,414	19·80	24·00
F	Parel	45,474	25·83	24·53
	Sewri	19,067	24·38	23·31
	Sion	30,680	28·61	25·71
G	Mahim	30,492	32·07	31·22
	Worli	89,611	20·71	20·03
	Harbour and Docks, Railways and Homeless	44,979	.....	·02
	Total	9,79,445	21·96	20·05

Birth-rate by Sections.

The recorded birth-rate for the entire City is 20·05 and the Sections with appreciably lower rates are (1) Middle and Lower Colaba (13·72), (2) Fort Northern (19·29), (3) Esplanade (10·97), (4) Mandvi (12·34), (5) Chukla (19·02), (6) Dongri (19·48), (7) Bhuleshwar (15·46), (8) Girgaum (19·78) and (9) Walkeshwar (19·54).

The highest birth-rate was registered, as in 1912, in Upper Colaba (61·01), which is, however, lower than in that year (62·94); the next highest is 31·22 for Mahim. The lowest rate (3·46) was recorded, as in previous years, for Fort Southern, which is purely a business locality and not a residential one; the next lowest was 10·07 for Market Section.

Total Mortality and Death-rate.

The climatic and health conditions of the year under review were more favourable than those of 1912. The total number of deaths registered from all causes during the year was 31,806 against 38,954 in 1912, being 7,148 lower than in the latter year and the lowest recorded since 1896. The general death-rate recorded was 32·47 in 1913 against 39·77 in 1912. The total mortality, as compared with the preceding decennium (1903-1912), shows a decrease of 9,644 deaths.

The death-rate (like the birth-rate) is high amongst the poor and working classes; and as an unduly large proportion of the population of the City belong to the most poorly paid sections of Society, the general death-rate of the City is raised by that of the unusually large proportion of the very poor; the Census of 1911 showed that 76 per cent. of the population lived in one-room tenement.

The mortality of the City steadily fell from 79,350 in 1900 (rate 96·55) to 59,495 in 1901 (rate 76·66) and from 52,874 in 1906 (rate 54·07) to 38,687 in 1907 (rate 39·56), to 38,271 in 1908 (rate 39·13), to 34,878 in 1909 (rate 35·66); and, with a slight rise in 1910 34,933 (35·72) and 1911 34,961 (35·69), rose to 38,954 (39·77) in 1912 and then suddenly dropped to 31,806 (rate 32·47) in 1913.

Compared with 1912, the year was marked by a gratifying reduction in the mortality from almost every disease with the exception of Plague, Measles, Influenza, Diseases of the Generative System and "other local diseases." The increase in the case of Plague was considerable (892); yet 1913 stands out as the second best year in the history of the disease in the City; the increases in other cases were insignificant.

It is satisfactory to note that over 46 per cent. (or 3,327 deaths) of the total decrease (7,148 deaths) was among children under 5 years of age, of whom 11,149 died during the year against 14,476 in 1912; the mortality among these was 35·05 per cent. of the total mortality of the City.

Very large decreases were registered under Cholera (1,665), Diarrhœa and Dysentery (1,371), Diseases of the Respiratory System (1,082), Small-pox (767), Tubercular Diseases (642) and Fevers (542).

Among other decreases may be mentioned those under Puerperal Septicæmia (136), Debility (414), Old Age (453), other General Diseases (362), Diseases of the Nervous System (271), Diseases of the Digestive System (123) and Urinary Diseases (84).

The mortality from Tubercular Diseases (2,152) was the lowest for at least three and a half decades, for the records of their incidence go no further back. The number of deaths from Small-pox (212) was the lowest since 1902, except in 1907 when it was only 86.

Correction in the Number of Deaths.

The figure of 31,806, however, represents the gross mortality of the City and is subject to correction. It is necessary on the one hand to exclude all deaths among persons newly arrived into the City and not belonging to it; and on the other to include all deaths occurring among those who belonging to it died elsewhere. The resulting mortality has in some of my previous Reports been termed the corrected mortality. The expression may, however, seem ambiguous and misleading, as mortality is generally corrected for differences of sex and age constitution of the population; but it may also be corrected for other considerations, such as the exclusion of those who, not belonging to the City, helped to swell its mortality returns, and the inclusion of those who, belonging to it, went out to die either (1) to their homes up-country or (2) to the numerous outlying sanatoria. Such adjustment is, quite as truly as the other, a process of correction and quite as necessary—and the result, to avoid possible misunderstanding, may be termed *effective* mortality.

Adopting the suggestion of the Standing Committee of the Corporation made in their review of my Report for 1910, letters of enquiry were, as in previous years, addressed to the authorities in charge of the following outlying Sanatoria and Convalescent Homes with a view to ascertaining the number of deaths among those who belonged to Bombay and went to the institutions for treatment or change of air—(1) Deolali, (2) and (3) Nasik, (4) Dumas (Surat), (5) Khandala, (6) Poona, (7) Coorla, (8) Dharampur (Simla Hills), (9) Panchgani, (10) Karla, (11) Lonavla and (12) Bandra.

The replies received from 11 of these show that 10 deaths among such persons occurred during 1913. It is obviously impossible to get at the number of those who died in their homes up-country; for we have no record of such deaths. On the other hand, the number of deaths among new arrivals not belonging to the City was 527. Applying this correction, the effective mortality of the City, as based on the available data, works out to (31,806 + 10 — 527 =) 31,289, giving the ratio of 31·94 per 1,000 of the population. Such an estimate of the City's mortality is desirable, as it marks a greater approximation to the truth than the bare statement of the number of deaths in the community. It is hardly necessary to observe that this approximation would have been still closer, but for the absence of any data regarding deaths occurred up-country among the inhabitants of this City; this absence largely accounts for—if it did not also accentuate—the disparity between the factors of inclusion and exclusion; though, as an offset against the possible reduction due to the omission of such deaths may be mentioned those occurring among the undoubtedly large number who are attracted to the metropolis for various reasons—visitors bent on pleasure or business, vagrants, labourers in search of work, sick persons in search of expert medical advice and others who come in order to be with their relations and not being properly units of the population are counted among them when they happen to die after a stay of more than 10 days. It is not improbable that these more or less balance each other and the death-rate is not materially affected by the want of either figure.

The following Table of mortality is intended to show the proportional contribution to the total result under each age-group in the two sexes.

Mortality by Sex and Age-group.

It will be noticed that in the year under review 17,794 deaths took place among male and 14,012 among female population of the City, against 21,329 male and 17,625 female deaths in 1912. The male death-rate works out to 27·79 and the female to 41·31 per 1,000 of sex population, against 33·31 and 51·96 respectively in the preceding year.

Female deaths will be found to exceed the male deaths under the age-groups of 1-5 years, 5-10 years and under that of 60 years and above, as in previous years; while under all other age-groups the male deaths outnumber the female ones.

The highest percentage of deaths to the total mortality among the male (22·04 per cent.), the female (25·44 per cent.) as well as the entire population (23·54 per cent.) will be found to have occurred, as usual, among infants, that is, in the group of under one year; the next highest among the population of either sex as well as all the inhabitants (17·21) will be found in the group of 20-30 years (males 18·62: females 15·40); the next highest percentage of deaths (12·52) occurred among males in the age-group of 30-40 years, but among females (13·34) in the age-period of 1-5 years.

The lowest percentage of mortality among males (2·89) occurred during 5-10 years of life; among females (3·85) in the age-period of 10-15 years and, taking the whole population, among those 5-10 years old (3·37).

TABLE OF PERCENTAGES TO THE TOTAL MORTALITY BY AGE-PERIOD IN 1911, 1912 AND 1913.

Age-Period.	1911.		1912.		1913.					
					MALES.		FEMALES.		PERSONS.	
	Total Mortality.	Percentage.	Total Mortality.	Percentage.	No. of deaths.	Percentage.	No. of deaths.	Percentage.	No. of deaths.	Percentage.
Under 1 year... ...	8,120	23·22	9,646	24·76	3,923	22·04	3,565	25·44	7,488	23·54
1 to 5 years ...	4,227	12·09	4,330	12·33	1,791	10·06	1,870	13·34	3,661	11·51
5 to 10 ,, ...	1,231	3·52	1,248	3·20	516	2·89	558	3·98	1,074	3·37
10 to 15 ,, ...	1,383	3·95	1,216	3·12	564	3·16	540	3·85	1,104	3·47
15 to 20 ,, ...	2,850	8·15	2,803	7·19	1,289	7·24	1,042	7·43	2,331	7·32
20 to 30 ,, ...	6,149	17·38	6,516	16·72	3,315	18·62	2,159	15·40	5,474	17·21
30 to 40 ,, ...	3,748	10·72	4,011	10·29	2,228	12·52	1,177	8·39	3,405	10·70
40 to 50 ,, ...	2,376	6·79	2,759	7·08	1,471	8·26	829	5·91	2,300	7·23
50 to 60 ,, ...	2,179	6·23	2,465	6·32	1,328	7·46	842	6·00	2,170	6·82
60 years and upwards.	2,683	7·67	3,449	8·85	1,364	7·66	1,430	10·20	2,794	8·78
Unspecified Ages ...	15	0·04	11	0·05	5	·02	...	...	5	·01
Total ...	34,961	100·0	38,954	100·0	17,794	100·0	14,012	100·0	31,806	100·0

Infant Mortality from Principal Causes.

The total mortality among infants or children up to one year of age recorded during the year under review was 7,488, showing a diminution of 2,158 deaths compared with 1912 and of 1,137 below the average of the preceding quinquennium (1908-1912). Going over the record of past seventeen years, the outlook is found to be remarkably encouraging. The percentage of infant mortality to total mortality at all ages was 23·54 and the mortality lowest since 1898.

The significance of this decrease in infant mortality may be studied with the aid of the following Tables:—

INFANT MORTALITY FROM PRINCIPAL CAUSES 1908 TO 1913.

Cause of Death.	1908.	1909.	1910.	1911.	1912.	Average (1908-1912).	1913.	Increase or Decrease.
Small-pox	236	134	264	98	274	201	55	— 146
Measles	238	27	56	233	82	127	66	— 61
All Fevers	229	192	238	251	277	237	201	— 36
Diarrhœa and Dysentery	763	611	674	581	900	706	615	— 91
Premature Birth	179	151	147	175	219	174	181	+ 7
Debility	2,872	2,626	2,567	2,864	2,581	2,602	2,207	— 395
Diseases of the Nervous System ...	1,403	1,466	1,402	1,400	1,570	1,448	1,278	— 170
Do. do. Respiratory System	2,557	2,221	2,292	2,364	2,877	2,464	2,113	— 351
All Causes	9,077	8,030	8,253	8,120	9,646	8,625	7,488	— 1,137

Principal Causes.

It will be observed from the foregoing Table that there was a fall in the number of deaths among infants from every principal cause. The mortality from Debility and Diseases of the Nervous and Respiratory Systems aggregated nearly 75 per cent. (5,598 deaths) of the total infant mortality (7,488) against about 73 per cent. in 1912 and over 75 per cent. in 1911.

As compared with 1912, considerable decreases in infant mortality were in evidence under the following causes:— (1) All Causes (—2,158), (2) Diseases of the Respiratory System (— 764), (3) Debility (— 374), (4) Diseases of the Nervous System (— 292), (5) Diarrhœa and Dysentery (— 285) and (6) Small-pox (— 219).

Among other and small decreases may be mentioned those of 76 under all Fevers, 38 under Premature Birth and 16 under Measles.

The mortality among children born prematurely (181) during the year was a trifle higher than the average of the preceding five years (174) and lower by 38 than in 1912.

The percentage of deaths from Diarrhœal Diseases among infants to total infant mortality was 8·21 during the year under report and the highest since 1908 (8·40) except in 1912 (9·33).

Infant Mortality by Age-periods.

The following Table classifies infantile deaths from principal causes under the three age-groups of 1-30 days, 1-6 months and 7-12 months during 1913; the corresponding figures for 1912 have been inserted for comparison.

TABLE OF DEATHS AMONG INFANTS FROM PRINCIPAL CAUSES BY AGE-PERIODS IN 1913 AND 1912.

Age-Period.	Year.	Small-pox.	Measles.	Malaria.	Ague and Remittent Fever.	Diarrhœa and Dysentery.	Premature Birth.	Debility.	Nervous System.	Respiratory System.	All Causes.	Percentage of deaths in each age-period to total deaths under 1 year of age.
1 to 30 Days ...	1913	3	...	...	29	34	181	1,903	302	66	2,591	34·46
	1912	10	1	...	20	51	218	2,152	347	70	2,937	30·44
1 to 6 Months ...	1913	27	13	5	64	151	...	259	694	833	2,203	29·42
	1912	121	17	7	83	258	1	354	903	1,247	3,186	33·04
7 to 12 Months ...	1913	25	53	9	93	430	...	40	282	1,214	2,694	35·97
	1912	143	64	17	145	591	...	75	320	1,560	3,521	36·50
Total ...	1913	55	66	14	186	615	181	2,207	1,278	2,113	7,488	...
	1913	274	82	24	248	900	219	2,581	1,570	2,877	9,646	...

If the foregoing Table be scrutinised, it will be seen, that except for a slight increase (9) under Ague and Remittent Fever, there was in all the three groups a very appreciable reduction in infant mortality under every cause of death as compared with 1912.

In the age-group of 1-30 days there was a large drop of 244 under Debility and of 346 under all causes; in the second group such decreases were as under:—Small-pox (—94), Respiratory Diseases (—414), Nervous Diseases (—209), Diarrhœal Diseases (—107), Debility (—99) and all causes (—985); in the third group only the following need be noticed: Small-pox (—118), Diseases of the Respiratory System (—346), Diarrhœal Diseases (—161) and all causes (—827).

The above Table may be subjected to further scrutiny with the following Table, which gives the percentage or proportion of mortality under each principal cause of death to the total mortality from all causes among infants in each of the 3 age-groups.

The highest percentage of total infant mortality (35·97) was registered among children of 7-12 months old and the lowest (29·42) in the age-period of 1-6 months.

TABLE OF PERCENTAGES OF INFANT DEATHS FROM PRINCIPAL CAUSES IN 1913.

Age-Period.	Small-pox.	Measles.	Malaria.	Ague and Remittent Fever.	Diarrhœa and Dysentery.	Premature Birth.	Debility.	Nervous System.	Respiratory System.	All Causes.
1 to 30 days	0·11	...	...	1·11	1·81	6·98	73·63	11·65	2·54	34·46
1 to 6 months	1·22	0·59	0·22	2·90	6·85	...	11·75	31·50	37·81	29·42
7 to 12 months	0·92	1·96	0·33	3·45	15·96	...	1·48	1·46	45·06	35·97
Total ...	0·73	0·88	0·18	2·48	8·21	2·41	29·47	17·06	28·21	...

It will be noticed that out of 19,644 children registered as born (i) 2,591 died within 30 days of birth, being 346 less than in the preceding year; for a very large majority of these 1,908 or 73·63 (against 2,152 or 73·27 in 1912) the cause of death given was Debility, that is, want of vitality, immaturity at birth, wilful or ignorant neglect and the methods adopted by the unskilled or untrained women attending the labour; (ii) 2,203 children, being 985 less than in the preceding year, died before attaining the age of 6 months, the cause of death in the descending order of incidence being 37·81 Diseases of the Respiratory System (against 39·11 in 1912); 31·50 Diseases of the Nervous System (convulsions) against 28·32 in 1912; 11·75 Debility (against 11·10 in 1912) and 6·85 Diarrhœa and Dysentery (against 8·09 in the preceding year); (iii) 2,694 of the children, being 827 less than in 1912, died before attaining the age of 12 months, the cause of death being 45·06 Diseases of the Respiratory System (against 44·30 in 1912), 15·96 Diarrhœa and Dysentery (against 16·78 in 1912) and 3·45 Ague and Remittent Fever (against 4·11 in the preceding year).

It will be observed that out of the total mortality under 1 year of age, nearly 36 per cent. occurred in the age-group of 7-12 months, and further that of the deaths at this period of life, a little less than half are due to the Diseases of the Respiratory System. In the first and second age-group the maximum mortality is due to Debility and Diseases of the Respiratory System respectively. The next most fatal cause is Diseases of the Nervous System in the first and second groups and Diarrhœa and Dysentery in the third, all of which signify exposure and defective feeding.

TABLE OF INFANT MORTALITY BY MONTHS IN 1913 AND 1912.

MONTHS.	1913.						1912.
	Debility.	Nervous Diseases.	Respiratory Diseases.	All Causes.			All Causes.
				Males.	Females.	Total.	
January	166	109	155	268	282	550	800
February	134	89	138	260	221	481	681
March	134	96	172	299	271	570	817
April	157	114	194	333	328	661	965
May	145	135	225	344	338	682	906
June...	153	119	202	325	324	649	882
July	212	101	220	358	349	707	948
August	231	113	183	380	335	715	946
September	244	81	161	344	295	639	795
October	220	117	146	326	289	615	690
November	209	88	150	337	244	581	652
December	202	116	167	349	289	638	564
Total ...	2,207	1,278	2,113	3,923	3,565	7,488	9,646

Infant Mortality by Months.

The foregoing Table exhibits the monthly fluctuations of infant mortality during the year under report; three columns have been inserted giving the number of deaths from the three most fatal causes of death among children, as they serve to explain the fluctuations and their extent.

Compared with 1912, infant mortality in 1913 was month for month much lower except in December when an increase of 74 was recorded. February registered the lowest number during the year (481); January registered the next lower (550); the mortality then steadily rose till August when the maximum (715) was recorded; then it fell during the next three months reaching 581 in November and finally rose to 638 in December.

TABLE OF MORTALITY AMONG INFANTS AND DEATH-RATE PER 1,000 of BIRTHS REGISTERED IN EACH RACE IN 1912 AND 1913.

	RACE OR CASTE.	1912. Deaths under 1 year.	1912. Number of Births registered.	1912. Infant mortality per 1,000 of Births in *the caste.*	1913. Deaths under 1 year.	1913. Number of Births registered.	1913. Infant mortality per 1,000 of Births in *the caste.*
HINDUS.	Jains	334	278	1,201·4	298	376	792·5
	Brahmins	343	542	632·8	254	423	600·4
	Lingaits	46	41	1,121·9	36	39	923·0
	Bhatias	52	130	400·0	43	120	358·3
	Hindus of other Castes ...	4,532	10,167	445·7	3,435	9,187	373·8
	Hindus, Low Caste ...	1,690	3,306	511·1	1,264	2,909	434·5
	Mussalmans (including Negro-Africans) ...	1,753	4,157	421·6	1,388	3,756	369·5
	Parsees	279	1,353	206·2	247	1,313	188·1
	Jews	68	225	302·2	38	204	176·4
	Native Christians	459	993	462·2	409	976	419·0
	Eurasians...	33	85	388·2	26	113	230·0
	Europeans	47	226	207·9	31	204	151·9
	Buddhists	...	1	...	2	13	153·8
	Other and unknown Castes	10	14	714·2	19	11	1727·2
	Total ...	9,646	21,518	448·2	7,488	19,644	381·1

Infant Mortality by Race or Caste.

The foregoing Table gives the death-rate among infants of the several races of the population, calculated per 1,000 of births registered in the race or caste: the number of births and of deaths under one year are inserted and the corresponding figures for 1912 added for comparison.

It will be seen that every community exhibits a very striking reduction in infant mortality. The infantile death-rate for the whole City calculated on the total number of registered births was 381·1. Calculating for different castes on the number of births registered among them, the highest death-rate was 923·0 and registered among Lingaits against 1201·4 in 1912 among Jains, and the lowest 151·9 among Europeans against 206·2 among Parsis in the preceding year. In the ascending order of incidence, after Europeans come Buddhists (153·8), Jews (176·4), Parsees (188·1), Eurasians (230·0), Bhatias (358·3), Mussalmans including Negro-Africans (369.5), Hindus of other Castes (373·8), Native Christians (419·0), Hindus, Low Caste (434·5) and Brahmins (600·4).

Infant Mortality by Sections.

With a view to measuring the relative incidence of infant mortality in the different Sections of the City, the following Table is given showing the ratio of infantile deaths occurring in each Section to the number of births registered in that particular Section. Apart from the irregular distribution of the female population in the different Wards of the City, such measurement of infant mortality is not altogether reliable owing to the following factors which inevitably introduce an element of error or uncertainty in the calculations. The difficulties in the way of registration of all births occurring in the City, consequent on parental ignorance or neglect, varying with the class of people inhabiting the different Sections ; the prevailing custom of sending prospective mothers home to their native districts for confinement, resulting in an excess of infants in the City over births actually occurred and registered in it ; the inflation of the infantile death-rate due to out-born infants dying in the City ; the intersectional movement of the population making it possible for children born in one Section to die in another.

STATEMENT OF THE RATIO OF DEATHS AMONG CHILDREN UNDER 1 YEAR PER 1,000 OF BIRTHS REGISTERED IN EACH SECTION IN 1912 AND 1913.

Ward.	Sections.	1912.	1913.	Ward.	Sections.	1912.	1913.
A	Upper Colaba	183·6	136·8	E	Mazagon	433·0	266·8
	Middle and Lower Colaba.	405·7	455·5		Tarwadi	565·7	501·7
	Fort, Southern	333·3	166·6		Second Nagpada	462·0	396·5
	Fort, Northern	423·6	338·7		Kamathipura	555·8	418·7
	Esplanade	400·0	348·7		Tardeo	462·2	442·7
B	Mandvi	671·4	504·8		Byculla	420·9	409·8
	Chukla	470·9	396·9		First Nagpada	464·5	181·8
	Umarkhadi	478·0	403·6	F	Parel	419·5	323·7
	Dongri	665·5	451·9		Sewri	537·6	455·9
C	Market	590·6	526·3		Sion	359·9	349·8
	Dhobi Talao	380·3	301·2	G	Mahim	292·4	296·2
	Fanaswadi	351·1	259·8		Worli	450·9	403·3
	Bhuleshwar	487·0	460·9		Harbour and Docks ...	...	...
	Khara Talao	468·0	395·7		Railways and Homeless		
	Kumbharwada	513·2	413·2		Total ...	448·2	381·1
D	Khetwadi	343·1	340·8				
	Girgaum	405·1	333·3				
	Chowpati	359·4	280·8				
	Walkeshwar	297·2	211·5				
	Mahalakshmi	411·7	292·7				

The rate of infant mortality for the entire City in 1913 based on the number of births actually registered was 381·1 against 448·2 in 1912 and 379·8 in 1911; and the Sections which showed a higher incidence of such mortality during the year under review were:—(1) Middle and Lower Colaba (455·5) in A Ward, (2) all the Sections of B Ward [Mandvi (504·8), Chukla (396·9), Umarkhadi (403·6) and Dongri (451·9);](3) Market (526·3), Bhuleshwar (460·9), Khara Talao (395·7) and Kumbharwada (413·2) in C Ward; (4) Tarwadi (501·7), 2nd Nagpada (396·5), Kamathipura (418·7), Tardeo (442·7) and Byculla (409·8) in E Ward; (5) Sewri (455·9) in F Ward and (6) Worli (403·3).

These Sections, with the exception of Middle and Lower Colaba, are among those with which a high rate of mortality is generally associated, being largely inhabited by the poorer and ignorant classes living in insanitary houses and amidst similar surroundings.

The whole of A Ward (with the exception of Middle and Lower Colaba) and D Ward registered a lower death-rate; as also Dhobi Talao (301·2) and Fanaswadi (259·8) in C Ward; Mazagaon (266·8) and 1st Nagpada (181·8) in E Ward; Parel (323·7) and Sion (349·8) in F Ward; and Mahim (296·2) in G Ward.

Market registered the highest death-rate (526·3) and Upper Colaba (136·8) the lowest.

Compared with last year, all the Sections of the City exhibit a considerable reduction in the death-rate among infants, except Middle and Lower Colaba and Mahim, which show an enhancement, the former from 405·7 to 455·5 and the latter from 292·4 to 296·2.

Corrected Infant Mortality.

Infant Mortality has been calculated above on the number of births actually registered, but for a correct estimate, it should be calculated on the corrected number of births, so as to include infants who may have died during the year without their births being registered. The corrected number of births for 1913 works out, as we have seen, to 27,863 and gives an infant mortality of 268·74 per 1,000 of such births, against 322·3 in 1912 and 288·8 in 1911.

Measures to control Infant Mortality.

The work of Municipal Nurses and Midwives.

The following statement tabulates the work of the Municipal Nurses and Midwives in regard to attendance at birth and infant visitations. They have to find out and advise prospective mothers and to attend on confinements, and repeat their visits even after the lying-in period to find out, as far as possible, and warn against the pre-natal and post-natal influences which imperil infant life:—

Summary of inquiries and of work of Municipal Nurses and Midwives.	1909	1910	1911	1912	1913
Total number of Births (including still-born) registered	21,645	21,505	23,135	23,186	21,236
Percentage of Still-births to the total number of Births registered	8·3	7·2	7·6	7·1	7·4
Number verified by the Nurses	13,677	12,762	13,578	14,417	13,639
Percentage of the number verified to the total.	63·1	59·3	58·7	62·1	64·2
Percentage of the Confinements unattended...	18·0	15·2	12·7	13·0	12·8
Percentage of the Confinements attended by unskilled women	58·3	59·6	60·7	59·6	60·0
Percentage of the Confinements attended by qualified Nurses (including Municipal). ...	11·3	12·0	13·2	13·9	14·2
Percentage of the Confinements attended by Municipal Nurses	4·5	5·6	5·5	6·6	8·7
Percentage of Children born in Hospitals. ...	12·3	13·2	13·2	13·5	12·8
Percentage of the Children born in healthy condition	67·8	68·9	74·9	73·7	71·9
Percentage of the Children fed on breast. ...	64·9	59·8	69·7	66·5	68·4
Percentage of the Children dying within 30 days	12·3	11·8	11·5	11·8	10·7
Percentage of the cases where the mothers left home for work.	31·3	27·9	34·4	29·7	30·6

From an examination of the foregoing statement it will be observed that of the total number of 21,236 births (including still-births) registered in the City, 13,639 or 64·2 per cent. were verified by the Nurses and Midwives of the Department; the percentage of verification being the highest since Infant Visitation was started in June 1908.

The proportion of still-births, though slightly higher than in 1912 (7·1), was lower than in any other year in the quinquennium. The number of such births in 1913 (1,592) has already been observed to have been the lowest since 1899 excepting 1910.

Compared with 1912, the proportion of births wholly unattended fell from 13 to 12·8, being almost the same as in 1911 but much lower than in any other year.

The percentage of confinements attended by unskilled women shows a slight rise. Nevertheless the uninterrupted increase of nearly 3 per cent. during the last five years in the percentage of confinements attended by qualified nurses and midwives must be pronounced to have been quite encouraging: from 11·3 in 1909 to 13·2 in 1911 and to 14·2 in the year under report.

While the figure for 1913 marks a slight fall in the percentage of births in Hospitals, the proportion of births attended by Municipal Nurses and Midwives (8·7) has nearly doubled itself during the quinquennium and stands out the highest on record.

It is, however, to be regretted that the percentage of children born in a healthy condition (71·9) has been steadily on the decline since 1911. The proportion of children fed on breast (68·4) showed a marked increase; but it is found to have been subject to wide fluctuations from year to year, like that of mothers who left home for work leaving the child in others' care.

It is worthy of note that the percentage of children dying within 30 days of birth (10·7) marks a distinict improvement over previous years and was the lowest in 1913.

As in previous years, the ten Municipal Nurses and Midwives carried on their campaign against infant mortality and the causes responsible for it. The work done by them during the year has already been reviewed under several heads. Their collective activity can to some extent be measured from the total domestic visits they paid and the inquiries they made. During 1913 they paid 33,791 visits to houses, chawls and huts, enquired into 4,326 cases of ordinary sickness, 1,284 cases of Infectious Diseases and 1,608 deaths amongst the female population of the City; attended 1,200 confinements and ascertained 9,044 births; they also gave homely talks and advice on personal and domestic hygiene and on the care and up-bringing of infants and on the saving power of vaccination. Their duties, it will thus be seen, demand not only energy but also sympathy and tact and discretion. From the foregoing record of their work, combined with the obvious interest they take in it, there can be little doubt that their friendly and benevolent visits are greatly appreciated and have been productive of good which it is impossible to over-estimate.

In my previous Reports I have pointed out that poverty and ignorance are responsible for an unduly high proportion of the infant mortality in the City and any measures undertaken to reduce it should aim not only at giving instruction but also providing for poor women skilled nursing and hospital accommodation and financial assistance during their illness and in feeding the infants while the mothers are at work.

Relief to Poor Women during Confinement.

A fresh step forward was taken during the year by the Corporation sanctioning, at my suggestion, a grant of Rs. 1,000 for providing certain comforts for the poor class of women during confinement. The amount is expended in giving aid in the shape of a bed, blanket, milk, loaves, etc. A small advance is placed in the hands of the Registrar of each District and the Nurse and Midwife has in the course of her daily duties to find out women in need of such assistance and help them to obtain from a Magistrate or a Justice of the Peace a certificate of poverty, the production of which entitles them to receive all or such of these articles as may be required. A Register is maintained of cases which receive the benefit of the scheme.

During the six months of the year from July to December, such relief was given in 42 cases, 12 in the third quarter and 30 in the last. This is but a beginning and, as in each succeeding month the number of such cases increased, it may be expected that with the spread of the knowledge of help held out, a wide extension of the scheme will soon prove imperative.

Government review Sanitary Commissioner's Report for 1912: Infant-mortality.

Having repeatedly suggested in my earlier Reports—but without effect—practical remedies undertaken by the State and found successful in most European and American Cities, I asked, in my Annual Report for 1912, for a Committee of the Corporation to be appointed to consider and advise on the best means to be adopted to improve the condition of the women during labour and their infants during infant life. Government in reviewing the Annual Report of their Sanitary Commissioner for 1912—which, as usual, embodies an extract from the Annual Report of the Health Officer of Bombay on the measures carried out in the City for the reduction of Infant Mortality, observed: "The fact that in Bombay City, where preventive measures of an effective kind are concerted the results were worst may, it is true, be regarded as an indication that the conditions of the year were thoroughly unfavourable; but the statistics have nevertheless convinced His Excellency in Council that it will be necessary, in connection with the general measures in contemplation for the improvement of sanitation, to endeavour to devise more effective means for bringing to bear closer skilled supervision over this department of the public health" (Government Resolution, General Department, No. 6537 of 9th Setempber, 1913).

Corporation appoint a Committee to consider the subject.

The Municipal Commissioner having drawn the attention of the Corporation to the above and to my demand in the Annual Report, that body have appointed a Committee (Resolution No. 5355, dated the 4th December 1913), "to consider and advise the Corporation as to the best means to be adopted to improve the condition of women during labour and their infants during infant life and as to any other measures for reducing the infant mortality in the City."

Bombay Sanitary Association and its work among the poor.

Meanwhile the Bombay Sanitary Association has addressed itself with special zeal to the subject of high infant mortality, and adumbrated a scheme which, when given practical effect to, bids fair to become an instrument of incalculable good to the poor women of the City. The Association has always worked in co-operation with the Health Department and its Lady Health Visitors have, like the Corporation Midwives, been endeavouring by repeated domestic visits and frequent precept to instil into the minds of the poor the elementary principles of hygiene and sanitation and thus to improve their condition and surroundings.

Scheme to reduce Infant Mortality.

Recognising that the position of the untrained native midwife or *Dai* is one of the most important factors in the high rate of infant mortality, the scheme seeks to bring her in touch with trained nurses and Lady Health Visitors, so that her work can be supervised and the risk to mother and child minimised. This unclean woman, who receives a small fee of annas eight to rupees three, attends woman after woman without any aseptic precautions, going direct from one woman to another. Weird and incredible are the descriptions given of the crude and primitive methods employed by the *Dais* during and after delivery.

As it is impossible to get rid of this class of women at once, the scheme aims by degrees at bringing them under control and by legislation, on the lines of the Midwives Act of England (1902), at replacing them by a better class.

By way of a beginning and with a view to instructing the *Dais* how to deal with normal cases and to recognise early symptoms of complications, so that they could send for skilled help, the *Dais* of the City were assembled in the Municipal Dispensaries in the different Districts and lectures and demonstrations given to them by the District Registrars;

impressing on them the necessity for (1) the cleanliness of hand and person and surroundings, (2) the use of antiseptics, (3) the abolition of the crude and primitive methods in vogue and unnecessary interference with labour, (4) calling in trained aid and (5) reporting every case they attend.

Further, the Association contemplates the establishment for each district or section of the City a Ladies' Committee who will collect funds and supervise the work of trained Lady Health Visitors who will be provided to instruct *Dais* and hold classes for instructing girls and women in the hygiene of womanhood and thus work in co-operation with the Corporation Midwives.

Mortality in Hospitals.

The following statement gives the number of deaths in hospitals from various diseases during 1912 and 1913. The number of such deaths in the year under report was 2,997 against 3,712 in 1912 and their proportion to the total mortality was 9·42 against 9·52 in the preceding year.

Causes of Death.	1912.		1913.	
	Hospital Deaths.	Total Mortality.	Hospital Deaths.	Total Mortality.
Still-birth	348	1,668	327	1,592
Small-pox	175	979	50	212
Measles	2	210	2	222
Plague	187	1,717	319	2,609
Fevers	194	3,585	209	3,043
Cholera	247	1,790	19	125
Diarrhœa and Dysentery	518	4,544	256	3,173
Puerperal Septicæmia...	22	417	15	281
Leprosy	79	96	73	90
Premature Birth	127	219	77	181
Other General Diseases	479	8,137	447	6,796
Diseases of the Nervous System	133	2,236	102	1,965
„ „ Circulatory System	97	388	77	354
Phthisis	356	2,179	256	1,633
Other Diseases of the Respiratory System	526	9,686	493	8,604
Diseases of the Digestive System	223	1,360	209	1,237
„ „ Urinary System	95	382	83	298
„ „ Generative System	36	156	38	161
Other Local Diseases	68	170	45	140
Injuries	148	680	127	660
Unspecified Causes	...	23	...	22
Total (except Still-born) ...	3,712	38,954	2,997	31,606
Percentage to the Total Mortality ...	9·52	...	9·42	...

Principal Causes of Death.

TABLE OF DEATHS AND DEATH-RATES FROM SOME OF THE PRINCIPAL CAUSES OF DEATH IN 1913 COMPARED WITH THOSE IN 1912 AND THE AVERAGE OF THE PRECEDING 10 YEARS.

Causes of Death.	1912.		1913.		Average of 10 years 1903 to 1912.	
	Number of Deaths registered.	Rate of Mortality per 1,000 of Population.	Number of Deaths registered.	Rate of Mortality per 1,000 of Population.	Number of Deaths registered.	Rate of Mortality per 1,000 of Population.
Small-pox	979	·99	212	·21	849	·92
Measles	210	·21	222	·22	478	·52
Fevers (including Scarlet, Enteric, Malaria, Ague and Remittent and Relapsing).	3,585	3·66	3,043	3·10	3,247	3·53
Cholera	1,790	1·82	125	·12	478	·52
Plague	1,717	1·75	2,609	2·66	8,567	9·33
Phthisis	2,179	2·22	1,633	1·66	2,615	2·84
Diseases of the Nervous System ...	2,236	2·28	1,965	2·00	2,113	2·30
„ „ Respiratory System.	9,686	9·88	8,604	8·78	8,776	9·56
Diarrhœa	2,987	3·04	2,353	2·40	2,245	2·44
Dysentery	1,557	1·58	820	·83	1,148	1·25
Accidents	680	·69	660	·67	686	·74
All other causes (except Still-birth).	11,348	11·58	9,560	9·76	10,248	11·16
Total ...	38,954	39·77	31,506	32·47	41,450	45·17

During 1897-1905, Plague, of all diseases, exacted the heaviest toll. From 1906 onward the mortality from the Diseases of the Respiratory System has been far in excess of that from every other cause of death. During the year under review, it was 8,604, being 27 per cent. of the total mortality, while Fevers contributed the next highest number of deaths, *viz.*, 3,043, being 9·5 per cent. of the total. The incidence of Plague was during 1913 milder than that of either, as the disease was responsible for 2,609 deaths which were 2·6 per cent. of the total number.

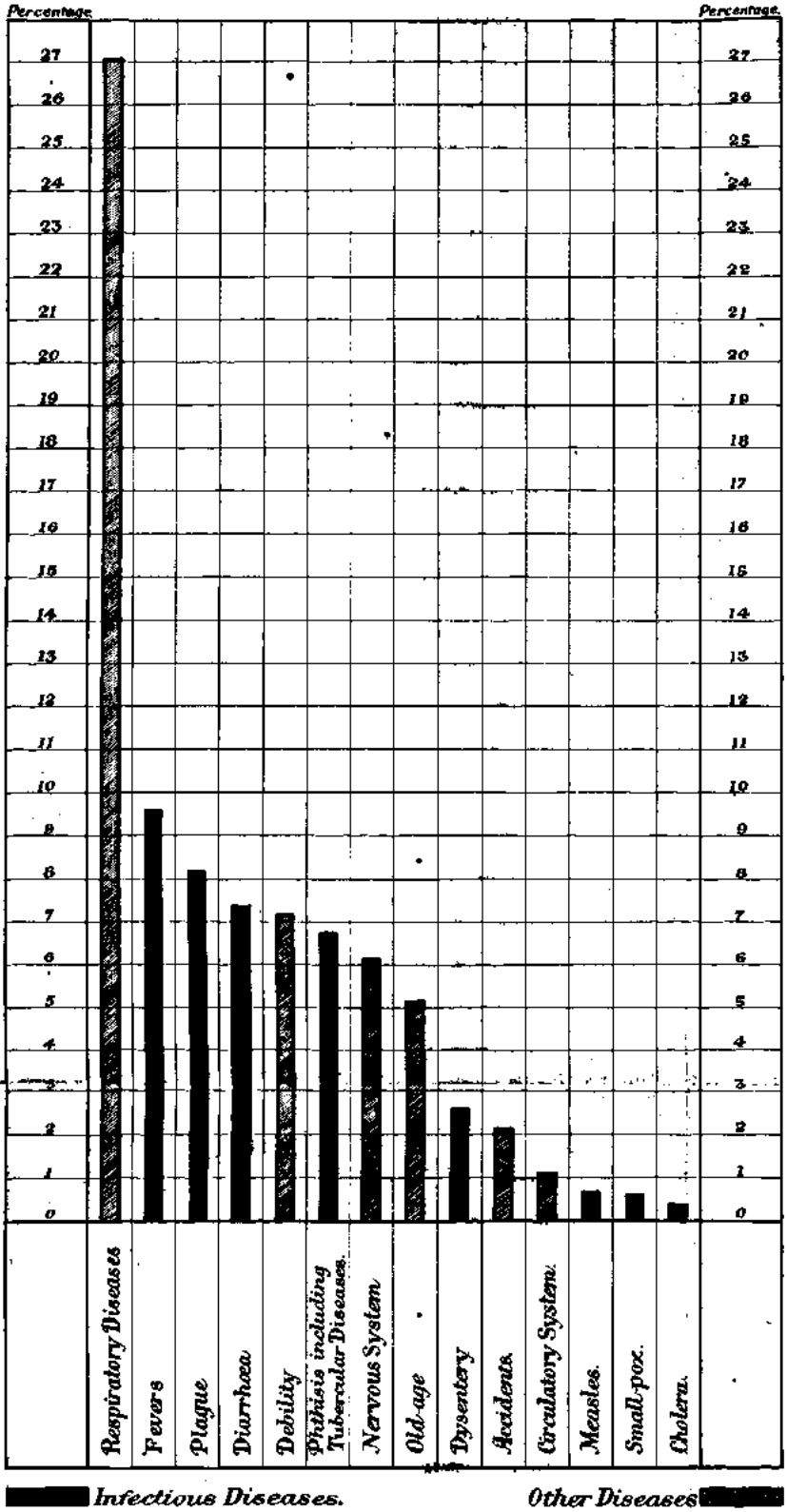
Compared with the preceding year, a very gratifying improvement in the death-rate will be noticed under every principal cause of death, except Measles and Plague; the death-rate from Measles was only a trifle higher. The decreases which call for particular notice were in the death-rates from the following:—Cholera from 1·82 to ·12; Diseases of the Respiratory System from 9·88 to 8·78; Small-pox from ·99 to ·21; Dysentery from 1·58 to ·83; Diarrhœa from 3·04 to 2·40; Fevers from 3·66 to 3·10 and Phthisis from 2·22 to 1·66.

Comparison with the preceding decennium (1903-1912.)

Compared with the preceding decennium, the general health conditions of the City during 1913 reflect a very striking improvement, as evidenced by a reduction of 12·7 in the general death-rate (from 45·17 to 32·47) which is equivalent to a saving of 9,644 lives. The largest reduction achieved was in the death-rate from Plague which was 2·66 in 1913 against the decennial mean of 9·33. The Phthisis death-rate shows an improvement of 1·18, Respiratory Diseases of ·78 and Fevers of ·43.

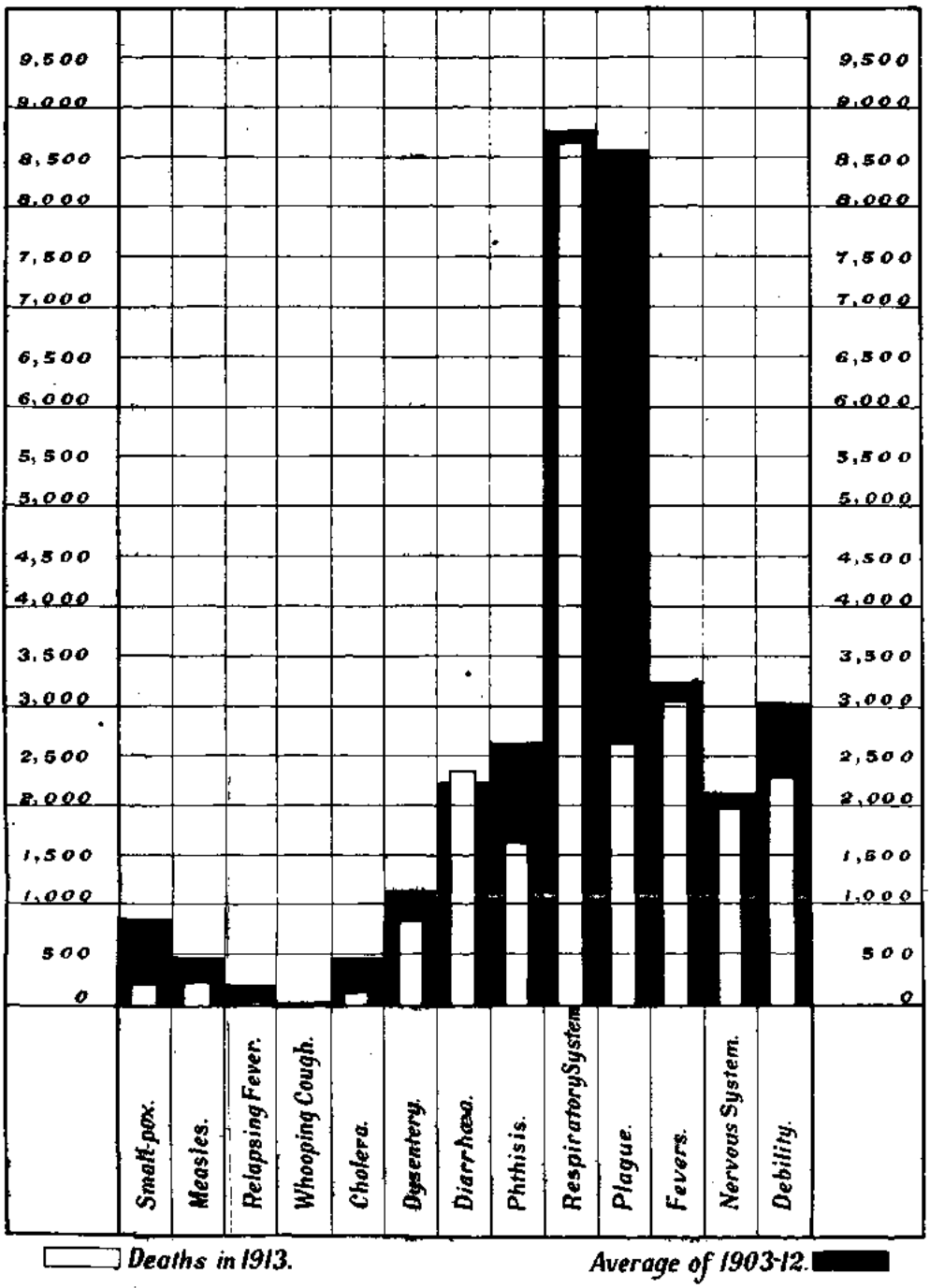
DIAGRAM

SHOWING PERCENTAGES OF DEATHS FROM PRINCIPAL CAUSES TO THE TOTAL MORTALITY IN BOMBAY IN 1913.



DIAGRAM

NUMBER OF DEATHS FROM THE ZYMOTIC AND OTHER DEATH CAUSES IN 1913, COMPARED WITH THEIR AVERAGES OF THE PRECEDING 10 YEARS.



	Number of Deaths registered from Zymotic Diseases.			
	1912.	1913.	Average of the last three years (1910—1912).	Average of the last ten years (1903—1912).
Small-pox	979	212	810	849
Measles	210	222	348	478
Plague	1,717	2,609	3,126	8,567
Scarlet Fever	1	...	...	
Enteric Fever	152	154	151	
Malarial Fever	360	261	329	3,247
Ague and Remittent Fever	3,070	2,624	2,795	
Relapsing Fever	2	4	15	
Influenza	.....	1	4	2
Whooping Cough	22	9	12	16
Diphtheria	5	4	3	2
Cholera	1,790	125	673	478
Dysentery	1,557	820	1,250	1,148
Puerperal Septicæmia	417	281	383	387
Total ...	10,232	7,326	9,899	15,174
• Death-rate per 1,000 of population ...	10·49	7·47	10·11	16·53

Mortality from Zymotic Diseases.

The death-rate from Zymotic Diseases which steadily had declined during 1905—1910, from 27·39 to 9·89, rose to 10·49 during the next two years. But it fell to 7·47 during 1913 and was the lowest since the appearance of Plague.

Compared with the average of the preceding triennium, it exhibits an improvement of 2·64, while it was 9·06 lower than the decennial rate.

An examination of the foregoing Table will show that compared with 1912, the Zymotic mortality declined during the year by 2,956. This large diminution is accounted for as under:—Cholera 1,665, Small-pox 767, Dysentery 737, Fevers 542, (Malarial Fever 99), Puerperal Septicæmia 136. The only considerable increase to be set off against these reductions was under Plague (892).

Mortality by Races.

In considering the relative incidence of mortality among the different races that inhabit the City, it will be observed from a study of the following Table that with the exception of Lingaits among Hindus, and Buddhists who number only 571 and form a negligible portion of the population, every other community exhibits a striking reduction in the death-rate compared with the foregoing year.

The general death-rate was 32·47 against 39·77 in 1912. Taking Hindus as a whole (31·92), Mussalmans alone of all the communities recorded a higher rate (39).

Among Hindus, Lingaits, who number only 1,779 by the Census of 1911, returned the highest death-rate (117·89) as in the preceding year; next Hindus, low Caste (70·36); then Jains (65·93).

Europeans, as usual, returned the lowest death-rate (16·47) against 21·43 in 1912; their largest contribution to mortality was under Fevers (2·77) and Respiratory Diseases (2·52), Small-pox, Measles and Cholera in equal proportions (·16), as also Plague and Phthisis (·33). Excepting Buddhists, they registered the highest death-rate from Enteric Fever (1·51), from Malarial Fever (·67) next after Eurasians (1·19) and Lingaits (·84) and from Accidents (1·17) after Jains (1·41). The death-rate among Eurasians was the next lowest (20·53); they suffered most from Respiratory Diseases (4·29) and from Fevers (3·82) more than any other community; Malaria and Ague and Remittent Fever in equal proportions (1·19) and Enteric Fever (1·43) less than Europeans only; accidents were least fatal to them (·23).

Then follow Parsees who appear to have suffered most from Respiratory Diseases (3·25); from Fevers (2·23) and from Diarrhœa (1·72); Malaria and Phthisis (·35) in equal degree.

Jews stand next with the death-rate of 24·10. The most fatal causes of death among them being Respiratory Diseases (4·69); Fevers (2·42); Diarrhœa (2·12) and Dysentery (1·81).

Hindus recorded the next higher rate of mortality (31·92); they succumbed more than any other race to Plague (3·15) and Measles (·28); to Phthisis (1·42) and Ague and Remittent Fever (2·82) and Respiratory Diseases (9·11) less only than Mussalmans, Phthisis (3·26), Ague and Remittent Fever (2·87) and Respiratory Diseases (10·41); Small-pox (·24) was less fatal to Hindus than only to Native Christians (·48).

Native Christians stand next higher with the death-rate of 32·27. The most fatal causes of death among them being Diarrhœa (2·85), Cholera (·21) and Small-pox (·48). Not being protected by vaccination in infancy, they are generally the worst sufferers in every out-break of Small-pox; they paid heavy toll also to the following diseases:—Respiratory Diseases (6·00), less only than Mussalmans (10·41) and Hindus (9·11); from Fevers (3·39) and Plague (2·37); they suffered most after Eurasians (3·82) and Hindus (3·15) respectively.

Mussalmans recorded, as in previous years, the highest communal death-rate (39·00), though much lower than in 1912 (50·72) or 1911 (46·39). For an explanation we may turn to Table 30 appended to this Report, which shows that they contributed a larger proportion of deaths than any other community from Respiratory Diseases (10·41) and Phthisis (3·26). This may largely be accounted for by the fact that Mahomedan localities in the City are among the most congested areas and by social customs which, in effect, deny to the females to the protective benefits of open air. There was also a higher proportion of deaths among them than any other race, except Native Christians, from Diarrhœa (2·84) and, except Hindus and Native Christians, from Plague (1·65).

Compared with the averages of the preceding decennium (1903-1912), it will be observed that (1) every community registered a vastly improved death-rate in 1913, Buddhists of course being excepted and that (2) the improvement wrought in the general health conditions of the City during the period is equivalent to the enormous reduction of 12·70 in the total death-rate, equivalent, if expressed in numbers, to a saving of 9,644 lives.

TABLE SHOWING BY CASTE THE NUMBER OF DEATHS AND THE DEATH-RATE FROM ALL CAUSES IN 1912 AND 1913 AND THE AVERAGE OF THE PRECEDING 10 YEARS. (1903-1912.)

Race or Caste.	1912.		1913.		Average of last ten years (1903-1912).	
	Number of Deaths.	Rate of Mortality per 1,000 of Population.	Number of Deaths.	Rate of Mortality per 1,000 of Population.	Number of Deaths.	Rate of Mortality per 1,000 of Population.
Hindus — Jains	1,414	69·11	1,249	65·93	...	...
Hindus — Brahmins	1,391	25·92	1,159	21·60	...	...
Hindus — Lingaits	138	117·04	139	117·89	...	...
Hindus — Bhatias	269	34·54	243	31·87	...	...
Hindus — Hindus of other Castes	18,318	33·47	15,141	27·67	...	...
Hindus — Hindus, low Caste	4,776	88·06	3,816	70·36	...	...
Hindus	26,306	38·43	21,852	31·92	28,957	44·76
Mussalmans, including Negro-Africans	9,077	50·72	6,996	39·00	9,128	54·68
Parsees	1,314	25·79	1,145	22·48	1,819	27·21
Jews	254	38·50	159	24·10	197	35·11
Native Christians	1,584	38·37	1,332	32·27	1,476	45·75
Eurasians	116	27·69	86	20·53	120	31·83
Europeans	255	21·48	196	16·47	228	17·21
Buddhists	10	17·30	17	29·41	10	26·59
Other and unknown castes	18	...	23	...	15	.....
Total	38,954	39·77	31,806	32·47	41,450	45·17

Mortality by Months.

In the following Table the monthly fluctuations in the mortality of the City are indicated, from which it will be observed that month for month the mortality during the year under review was lower than in 1912, resulting in a total decrease of 7,148 deaths. The most notable diminutions were recorded in the following months:—January (—577), February (—515), June (—1,696), July (—1,006), August (—916) and September (—616).

January registered 2,683 deaths. This figure would have been considerably reduced had not the month been marked by the highest monthly mortality in the year from Old Age (190), Dysentery (103), Cholera (49) and the Diseases of the Circulatory System (45); and by very high mortality from the Respiratory Diseases (812), whose increased prevalence is peculiar to the season, and from other General Diseases (205).

The mortality declined to 2,441 in February, but increased during March and April to 3,074 and 3,535, the latter month recording the highest monthly mortality in the year. In 1912 the maximum was registered in June (3,970). March, April and May are generally the unhealthiest months when Plague, Small-pox, Measles and Respiratory Diseases are at their worst, as will be seen from the figures given below. During May, there was a drop of 65 deaths and the following month further witnessed a sudden fall of 169 and recorded the minimum mortality of 2,274—

	Number of Deaths in		
	March.	April.	May.
Plague	456	880	729
Small-pox	41	64	38
Measles	47	42	22
Respiratory Diseases	840	824	879

Plague was epidemic from the week ending 1st March 1913 to that ending 7th June 1913 and contributed 2,158 deaths during the period. Of successive annual epidemics of the disease since 1896, that of 1913 was, next to that of 1912, the least severe.

July and August were marked by a slight rise consequent on the higher incidence of Ague and Remittent Fever and Diarrhœal Diseases. The mortality then declined to 2,305 in September but again increased to 2,418 in October and with a slight downward trend in November (2,378) recorded the final figure of 2,448 for December.

TABLE OF DEATHS FROM ALL CAUSES (EXCLUSIVE OF STILL-BORN) BY MONTHS IN 1912 AND 1913.

MONTHS.	Number of Deaths in 1912.	Number of Deaths in 1913.
January	3,260	2,683
February	2,956	2,441
March	3,541	3,074
April	3,948	3,535
May	3,524	3,459
June	3,970	2,274
July	3,333	2,327
August	3,380	2,464
September	2,921	2,305
October	2,725	2,418
November	2,650	2,378
December	2,746	2,448
TOTAL...	38,954	31,806

Mortality by Sections.

The general death-rate for the entire City is 32·47 against 39·77 in 1912.

It is gratifying to observe that, as compared with 1912, all the Sections exhibit an improvement in the death-rate except Middle and Lower Colaba, which recorded a slightly higher rate (30·79 against 29·52). The most appreciable reduction is noticeable in the following Sections :—

Upper Colaba 35·96, against 69·36 in 1912 ; Dongri 36·70, against 54·06 ; Umarkhadi 42·97, against 58·38 ; Tarwadi 52·03, against 68·07 ; 2nd Nagpada 40·59, against 54·83 ; Kamathipura 40·21, against 54·39 ; Mandvi 35·87, against 48·03 and Byculla 37·67, against 49·39.

The following Sections recorded rates higher than the general death-rate :—

Upper Colaba (35·96), Fort North (34·01), Esplanade (35·07), Mandvi (35·87), Chukla (36·97), Umarkhadi (42·97), Dongri (36·70), Bhuleshwar (33·16), Khara Talao (39·47), Kumbharwada (35·55), all the Sections of E Ward except 1st Nagpada, which was for the most part recently rebuilt as the result of the operations of the City Improvement Trust ; and Mahim (34·73).

It has to be remarked in this connection that the high death-rates of certain Sections are only apparently so ; for instance, Upper Colaba (35·96) reveals a large decrease in population by the Census of 1911 (from 3,775 in 1906 to 1,557, owing chiefly to the exclusion of the military included in previous enumerations (1901 and 1906); Esplanade (35·07), Tarwadi (52·03) and Byculla (37·67); these Sections contain Hospitals and should exhibit a much lower rate, but for the fact that for want of residential addresses of several patients dying in the Institutions, the deaths have to be referred to the Sections containing the Hospitals instead of to those from whence they came. Esplanade contains the St George's, Cama and Allbless, Goculdas Tejpal and the Parsi Lying-in Hospitals. Sir Jamsetji Jeejibhoy, Bai Motlabai and D. M. Petit and the Maratha Hospitals and St. Joseph's Foundling Home are in Tarwadi and the Arthur Road Infectious Diseases Hospital in Byculla.

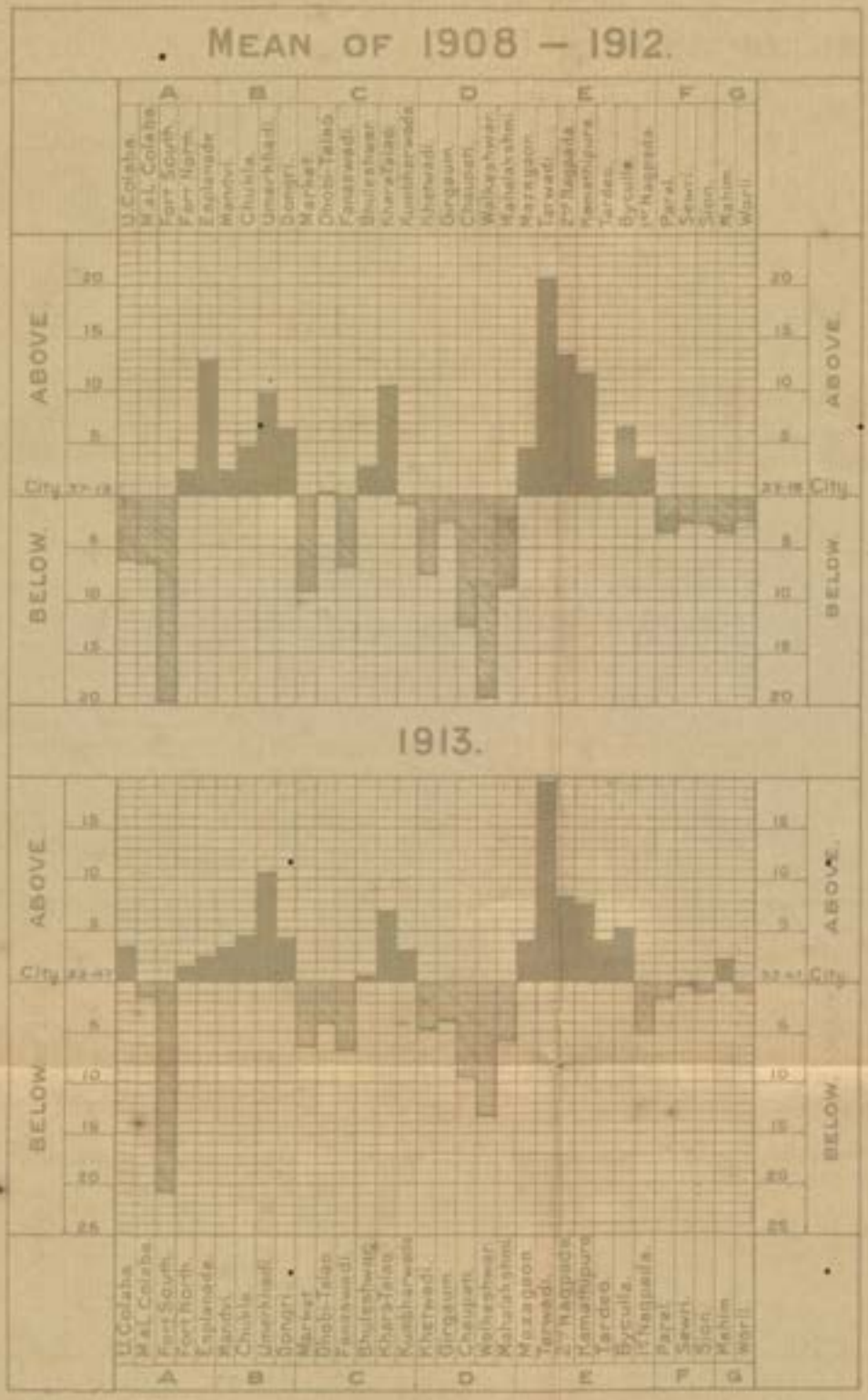
The highest death-rate was returned for Tarwadi (52·03) which contains Sir Jamsetji Jeejibhoy, Bai Motlabai and D. M. Petit and the Maratha Hospitals and St. Joseph's Foundling Home. The lowest rate (11·55) was recorded for Fort South which is purely a business locality and not residential.

The following Sections exhibit a marked improvement in the death-rate, as compared with the mean rate of the preceding quinquennium :—

Section.	Death-rate (1913.)	Mean Death-rate (1908-1912.)
Fort South	11·55	17·32
Esplanade	35·07	50·16
Dongri	36·70	43·28
Dhobi Talao	28·46	37·40
Bhuleshwar	33·16	39·93
Khara Talao	39·47	47·53
Girgaon	28·49	34·08
2nd Nagpada	40·59	50·01
Kamathipura	40·21	48·83
1st Nagpada	27·43	40·94

If we turn to Table 3 we shall find it furnish a key to understand the relative incidence of diseases in the different Sections of the City. It will be observed that the incidence of Cholera was more marked in Market (·33), Parel (·26), Dhobi Talao and Kumbharwada (·25) and Dongri (·22); Small-pox in Tarwadi (·84), Mazagaon (·53), Mahim (·45), Byculla and Sion (·42) and Tardeo (·39); Measles was worst in Tardeo (·54), Worli (·51), Kumbharwada (·43), 2nd Nagpada (·41) and Fanaswadi (·40), while Upper Colaba, Fort South, Esplanade and Walkeshwar were quite free from it. Plague was worst in Middle and Lower Colaba (6·96), Worli (4·65), Dongri (4·22), Mandvi (4·06), Mahim (4·00), Kumbharwada (3·53) and Mazagon (3·42).

COMPARISON OF TOTAL DEATH-RATES (INCLUDING PLAGUE) OF THE CITY AND COMPONENT SECTIONS.



Malaria was more prevalent in Esplanade (1·74), Tarwadi (·87), Fort South (·86), Fort North (·78) and Upper Colaba (·64) than in other Sections but much less so than in 1912 (Esplanade 1·91, Fort North 1·49, Upper Colaba 1·28 and Fort South 1·15).

The following Sections suffered most from Diarrhœal Diseases:—Tarwadi (7·56), Sewri (5·87), Tardeo (4·79), Esplanade (4·78), Byculla (4·77) and Mahim (4·68).

Diseases of Respiration (including Phthisis) levied the heaviest toll in Umarkhadi (15·87), Kamathipura (15·42), Mandvi (14·87), 2nd Nagpada (14·23), Chukla (14·11), Byculla (12·76), Dongri (12·44) and Tarwadi (12·38).

Other Tubercular Diseases were more in evidence in Upper Colaba (4·49), Esplanade (2·13), Tarwadi (1·37), Chaupati (1·22) and Fort North (1·06).

Mortality by Place of Birth.

Of the total number of 31,806 deaths in the entire population during the year, 42·48 per cent. or 13,512 deaths occurred among persons born in Bombay, 53·71 or 17,084 among those born outside it; and 3·80 or 1,210 deaths were of persons whose place of birth could not be ascertained.

Plague Mortality.

The progressive decline in the mortality from Plague, which distinguished the quinquennium of 1906-1910, closing as it did with the lowest figure then on record (3,656), was interrupted by an increase of 350 deaths during 1911. But 1912 returned a Plague mortality (1,717) far below even that of 1910. It constitutes a record year, for in 1913 an increase of 892 was registered, the mortality (2,609) giving the death-rate of 2·66 per 1,000 of the population. It must, however, be noted in favour of the year under report that although the number of attacks and deaths from Plague was higher than in 1912, it was lower than in any other year since the first outbreak of the disease in 1896.

In my previous Reports, I observed that in spite of the enormous and steady shrinkage of Plague mortality, indicating the effective control under which the disease had been brought, a corresponding abatement in virulence had not been possible. For example, in 1912 which witnessed the lowest Plague mortality on record, the case mortality was 88·68, next only to that of the most fatal years in the history of the disease: 1901 (89·19) and 1903 (89·05), when 59,495 and 50,513 deaths were registered. In 1913, however, there was a very perceptible reduction in case mortality—86·30, the lowest since 1902 (84·15) which recorded 48,414 deaths from all causes and 13,820 from Plague. This is a notable feature of the epidemic of the year.

TABLE SHOWING THE NUMBER OF ATTACKS AND DEATHS FROM PLAGUE SINCE 1896 AND THE TOTAL MORTALITY, EXCLUDING STILL-BORN, SINCE 1891.

	Number of Plague Attacks.	Number of Plague Deaths.	Death-rate from Plague per 1,000 of Population.	Percentage of Deaths to Attacks.	Number of Deaths from all causes (exclusive of Still-born).	Total Death-rate per 1,000 of Population.
1891	...	...	...	...	23,847	29·01
1892	...	...	...	...	26,518	32·26
1893	...	...	...	...	23,142	28·16
1894	...	...	...	...	27,330	33·25
1895	...	...	...	...	25,081	30·52
1896	2,544	1,936	2·36	76·10	33,451	40·71
1897	13,314	11,003	13·39	82·64	47,896	58·28
1898	22,130	18,185	22·12	82·17	51,961	63·23
1899	19,451	15,796	19·22	81·20	56,434	68·07
1900	17,913	13,285	16·16	74·16	79,350	96·55
1901	21,006	18,736	24·14	89·19	59,495	76·66
1902	16,423	13,820	17·90	84·15	48,414	62·38
1903	23,344	20,788	26·78	89·05	50,513	65·09
1904	15,488	13,538	17·44	87·40	42,676	54·99
1905	16,308	14,198	18·29	87·06	47,762	61·54
1906	12,323	10,823	11·06	87·82	52,874	54·07
1907	7,353	6,389	6·53	86·88	38,687	39·56
1908	6,134	5,361	5·48	87·39	38,271	39·13
1909	5,864	5,197	5·31	88·62	34,878	35·66
1910	4,130	3,656	3·73	88·52	34,933	35·72
1911	4,503	4,006	4·09	88·96	34,961	35·69
1912	1,936	1,717	1·75	88·68	38,954	39·77
1913	3,023	2,609	2·66	86·30	31,806	32·47

Plague by Months.

The monthly fluctuations of Plague mortality are indicated in the following Table, from which it will be observed that it was higher than in 1912 during every month, except September (41) and November (21), when it was the same and in December(8), when it was a third of that in the preceding year (25). Thus the total increase during the year was 892.

Plague mortality rose rapidly from 122 deaths in February to 456 in March, recording the maximum of 880 in April against 611 in 1912. It then steadily declined during succeeding months till it reached the lowest ebb in December (8), which recorded the lowest monthly figure since the appearance of Plague in 1896.

Plague was epidemic from the week ending 1st March till that ending 7th June; at its highest during the week ending 19th April which registered 240 deaths.

Plague was worst in April, as usual, and registered 1,011 seizures and 880 deaths, against 677 seizures and 611 deaths in 1912; at its lowest in December with 13 attacks, of which 8 proved fatal. The monthly minimum was thus much lower than in 1912 (21 attacks and 19 deaths).

The highest number of seizures recorded on a single day was 50 on the 11th April and 3rd May (against 36 on 21st April 1912) and the highest number of deaths was 41 on the 30th April and 3rd May (against 34 on 21st April 1912).

STATEMENT SHOWING THE NUMBER OF DEATHS FROM PLAGUE BY MONTHS DURING 1912 and 1913.

MONTHS.	Plague Deaths in	
	1912.	1913.
January	33	41
February	101	122
March	306	456
April	611	880
May	348	729
June	92	139
July	61	79
August	59	60
September	41	41
October	19	33
November	21	21
December	25	8
Total	1,717	2,609

DIAGRAM

MONTHLY PLAGUE DEATHS IN 1913 COMPARED WITH THEIR AVERAGES OF THE PRECEDING 10 YEARS.

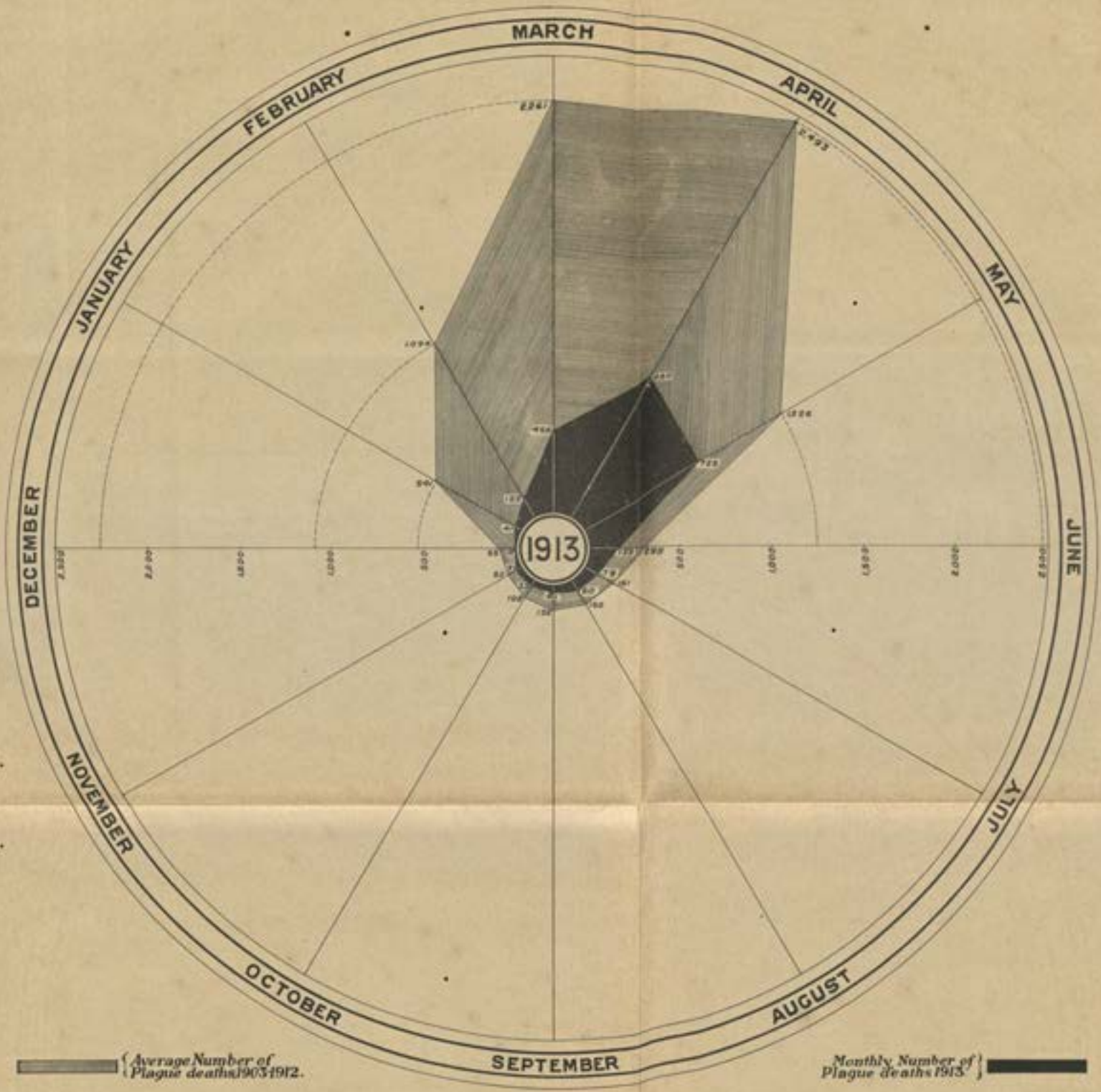


TABLE SHOWING THE DAILY NUMBER OF ATTACKS AND DEATHS FROM PLAGUE AND THE TOTAL MORTALITY EXCLUDING STILL-BORN IN 1913.

Date.	January.			February.			March.			April.			May.			June.			July.			August.			September.			October.			November.			December.		
	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.
1	1	1	95	3	4	101	6	7	106	31	17	128	36	31	127	14	12	105	1	1	75	1	..	77	3	2	86	5	5	73	..	2	90	..	..	90
2	1	1	108	2	2	93	9	5	92	18	19	104	40	39	135	10	13	103	1	1	73	3	4	92	2	3	81	..	..	60	..	1	74	3	1	71
3	1	..	74	6	4	85	3	4	112	21	21	90	50	41	145	15	10	103	4	3	72	..	..	68	3	3	78	..	..	72	1	1	79	..	..	65
4	3	2	101	1	2	81	12	7	80	39	30	119	46	38	116	5	4	101	2	3	85	5	2	70	3	2	62	1	..	92	1	2	78	..	..	73
5	2	2	84	3	1	84	6	6	89	22	20	99	29	25	113	9	6	76	4	3	71	5	2	67	..	..	79	4	3	74	4	2	74	2	2	76
6	3	3	92	3	7	90	17	14	76	33	33	112	36	30	117	5	6	99	1	1	54	6	4	68	..	..	67	2	2	98	1	..	78	..	..	63
7	1	1	78	9	5	94	11	9	103	25	29	124	29	28	115	3	2	81	2	3	80	3	2	88	2	1	84	..	2	75	2	3	88	..	..	70
8	3	1	91	2	0	83	13	13	96	23	23	114	33	29	116	3	5	73	3	2	60	3	3	71	1	1	73	..	..	86	1	1	87	1	..	75
9	2	2	87	5	3	88	13	16	106	45	26	107	20	18	109	6	4	77	4	2	59	1	3	66	..	1	75	..	..	83	..	..	81	..	..	84
10	..	1	79	3	1	76	20	12	83	34	37	113	21	16	108	4	5	71	3	1	64	..	1	63	1	..	79	2	2	76	..	..	84	..	..	73
11	1	1	94	..	1	97	31	14	91	50	39	129	26	19	116	4	3	73	3	2	68	1	2	76	..	..	78	..	..	72	2	2	68	..	1	79
12	3	1	79	4	3	78	13	17	109	35	27	123	26	30	91	2	2	71	5	6	84	..	..	82	2	1	78	1	..	84	1	1	84	1	..	75
13	..	..	80	7	5	104	11	13	105	30	37	136	24	20	92	4	2	70	5	5	76	5	3	86	1	..	76	1	1	81	1	1	81	..	..	81
14	..	..	93	2	5	107	20	15	101	33	36	132	22	17	101	1	1	72	3	2	83	1	1	82	1	2	90	..	1	69	..	..	60	1	..	71
15	1	1	76	3	3	106	22	16	103	41	28	127	34	28	125	3	1	70	6	4	82	4	3	87	2	1	77	4	2	71	..	..	84	..	1	60
16	1	1	80	1	..	88	18	15	94	38	33	112	33	30	121	2	1	75	4	3	86	3	2	82	4	2	84	..	..	61	1	1	86	1	..	97
17	1	..	84	4	3	76	13	13	98	46	35	127	20	21	116	6	4	69	4	3	80	1	2	84	1	3	77	..	1	88	..	..	89	1	1	78
18	1	1	84	3	2	77	21	12	88	33	39	137	16	18	94	6	4	60	2	1	79	2	3	96	1	1	85	..	..	74	1	1	99	..	..	78
19	2	2	101	6	3	77	32	22	112	37	31	103	23	20	128	7	6	81	3	2	66	..	..	78	3	3	79	..	..	90	..	..	71	1	..	78
20	0	..	96	8	10	93	20	25	105	32	27	111	32	28	119	5	7	74	3	1	77	5	5	90	4	2	81	1	1	78	..	..	71	..	1	87
21	2	2	81	11	3	94	27	23	111	26	30	97	41	30	116	5	2	61	3	1	86	..	1	70	3	2	69	1	1	79	..	..	75	1	..	81
22	4	2	82	5	5	90	15	13	106	36	23	118	31	28	116	10	8	70	6	3	80	2	..	65	3	2	70	4	..	62	..	..	70	..	..	70
23	1	1	86	5	5	86	26	23	107	26	24	115	24	22	89	5	4	71	5	3	77	4	4	87	1	1	67	1	1	69	..	1	66	..	..	88
24	1	1	77	6	5	81	22	22	139	41	40	111	18	21	102	6	6	75	3	2	66	1	1	94	2	1	70	2	1	76	1	..	72	..	..	79
25	1	1	70	8	5	74	22	20	114	29	28	106	22	20	124	4	4	70	2	1	73	..	1	70	2	2	69	2	2	93	..	..	78	..	..	81
26	3	2	77	5	5	88	19	16	100	31	24	121	33	13	104	2	2	57	1	2	87	..	1	85	1	1	73	3	4	87	..	..	86	..	..	70
27	0	1	81	12	9	93	16	17	96	29	16	112	19	18	103	6	4	74	7	3	77	4	1	89	1	1	92	1	1	90	..	..	80	1	1	94
28	5	3	110	11	11	95	24	16	83	37	36	141	27	20	113	3	5	54	1	3	68	2	2	72	1	1	71	..	2	77	1	1	86	..	..	98
29	1	2	96	..	..	..	27	16	84	39	31	125	15	13	98	5	5	60	4	4	71	3	3	96	2	2	88	4	..	62	..	..	77	..	..	84
30	5	4	94	..	..	..	13	17	97	43	41	143	19	14	104	..	..	73	7	4	87	..	..	75	..	..	87	..	..	73	1	1	87	..	..	83
31	1	1	79	..	..	..	17	18	89	..	..	..	9	13	88	..	..	..	6	4	92	2	2	90	..	..	..	1	1	93	..	..	..	..	..	96
Total ..	51	41	2,683	143	122	2,441	532	456	3,074	1,011	880	3,535	834	729	3,459	159	139	2,274	105	79	2,927	67	60	2,464	49	41	2,305	40	33	2,413	19	21	2,378	13	8	2,443

Total in 1913.

Attacks.	Deaths.	Total Mortality.
3,023	2,609	31,806

Plague by Races.

Of the total number of 2, 609 Plague deaths during the year under report, 2,160 were registered among all classes of Hindus together, against 1, 345 in 1912 ; while Mussalmans (including Negro-Africans) contributed 297 against 271 in the year preceding ; Native Christians 98 against 58 and Parsees 43 against 34 ; the small balance of 11 sums up the deaths among Jews (7) and Europeans (4) against 5 and 3 respectively in the previous year.

Eurasians and Buddhists registered no death from the disease.

As usual, Hindus paid the heaviest toll to Plague and registered the death-rate of 3·15; next to them Native Christians, among whom the death-rate was 2·37; then follow Mussalmans (1·65); Jews (1·06) and Parsees (·84); the European rate, as usual, was the lowest (·33 representing 4 deaths).

Plague by Sex and Age.

Of 2,609 Plague deaths, 1,773 were among males and 836 among females; the proportion of deaths per 1,000 of sex population being respectively 2·76 and 2·46.

The proportion of male deaths to female was 2 to 1 in the entire population as among Hindus of all Castes; as 2·8 to 1 among Mussalmans (including Negro-Africans); 2·2 to 1 among Native Christians and 1·3 to 1 among Jews; but it was 3 to 4 among Parsees.

There was no death among European males.

The disease was most fatal to persons between 15 to 30 years of age, as 1,353 or more than 51 per cent. of the deaths occurred among them, 989 of these being among males and 364 among females.

Among infants or children under 1 year of age there were 3 deaths. In the age-group of 1 to 5 years there were 27 male deaths and 28 female, while in the population aged 50 years and more, 82 males and 34 females died from Plague.

Plague by Sections.

The general death-rate from Plague for the whole City was 2·66 for the year under review, being higher by ·91 than that of 1912 (1·75); and the Sections that recorded a higher rate were :—in A Ward, Middle and Lower Colaba (6·96); all the Sections of B Ward, Mandvi (4·06), Chukla (2·97), Umarkhadi (2·88) and Dongri (4·22); in C Ward, Market (2·81), Fanaswadi (2·80) and Kumbharwada (3·53); in D Ward, Mahaluxmi (3·26); in E Ward Mazagaon (3·42) and Tarwadi (3·16); in F Ward, Parel (3·16) and Sewri (3·19); in G Ward, both the Sections of Mahim (4·00) and Worli (4·65).

All the other Sections registered a lower rate. The lowest (·26) was returned by Chowpati in D Ward, while the highest (6·96) was recorded by Middle and Lower Colaba in A Ward.

Although the death-rate was higher than in 1912, it was 1·41 below the quinquennial average (1908-1912); only Middle and Lower Colaba and Mahaluxmi Sections exhibited slightly higher rates.

TABLE SHOWING THE DEATH-RATES FROM PLAGUE IN SEVERAL SECTIONS IN 1912 AND 1913 WITH THEIR QUINQUENNIAL AVERAGE RATES.

Ward.	Sections.	1912.	1913.	Quinquennial average (1908-1912).
A	Upper Colaba	1·92	1·23	1·73
	Middle and Lower Colaba	3·35	6·96	5·21
	Fort, Southern	1·15	0·57	3·19
	Fort, Northern	2·00	2·51	3·93
	Esplanade	0·67	0·67	2·18
B	Mandvi	1·95	4·06	4·31
	Chukla	1·73	2·97	4·24
	Umarkhadi	3·15	2·88	4·87
	Dongri	2·31	4·22	4·45
C	Market	1·35	2·81	3·96
	Dhobi Talao	1·65	2·04	5·39
	Fanaswadi	1·93	2·80	5·29
	Bhuleshwar	1·91	2·19	5·33
	Khara Talao	2·30	2·52	5·08
	Kumbharwada	1·66	3·53	4·52

Ward.	Section.	1912.	1913.	Quinquennial average (1908-1912).
D	Khetwadi	1·37	1·03	2·52
	Girgaum	1·75	1·33	2·92
	Chowpati	1·05	·26	2·82
	Walkeshwar	0·65	·56	1·76
	Mahalakshmi	1·86	3·26	2·88
E	Mazagaon	2·32	3·42	5·85
	Tarwadi	2·53	3·16	4·79
	Second Nagpada	·87	1·19	2·78
	Kamathipura	1·30	1·38	3·30
	Tardeo	1·08	1·98	2·92
	Byculla	2·01	1·79	4·79
	First Nagpada	·62	1·09	2·84
F	Parel	2·08	3·16	3·99
	Sewri	1·25	3·19	4·99
	Sion	0·97	2·60	3·35
G	Mahim	2·91	4·00	4·49
	Worli	1·52	4·65	4·82
	Harbour and Docks	·08	0·02	·08
	Railways and Homeless			
	Total ...	1·75	2·66	4·07

The usual preventive and precautionary measures against Plague were continued in the year under review—Inoculation, Rat Destruction, Evacuation and Disinfection. Plague Measures.

The number of inoculations performed during 1913 was 5,488 against 6,886 in 1912, 9,621 in 1911, and 5,043 in 1910. Of the total number, 776 inoculations were performed by the District Registrars. (1) Inoculation.

STATEMENT SHOWING THE NUMBER OF PERSONS INOCULATED DURING THE YEAR 1913.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
District 1 ...	1	...	1	66	...	...	...	...	...	...	...	...	68
„ 2 ...	...	100	197	106	4	...	...	...	...	...	...	...	407
„ 3 ...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4 ...	...	...	21	...	1	...	...	...	...	1	...	...	23
„ 5 ...	...	...	...	2	...	...	...	...	...	...	...	...	2
„ 6 ...	...	...	...	15	6	...	28	...	...	...	...	...	49
„ 7 ...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8 ...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9 ...	...	...	...	227	...	...	...	...	...	...	...	...	227
„ 10 ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Parel Laboratory ...	15	12	143	116	52	2	6	6	7	19	9	6	393
H. M.'s Common Prison	409	382	354	338	403	327	392	411	382	332	306	283	4,819
Total ...	425	494	716	870	466	329	426	417	389	352	315	289	5,488

(II) Rat Destruction.

The number of rats collected and destroyed during the year was 654,516 against 578,082 in the foregoing year and 582,345 in 1911.

Infection among rats.

Of the 654,516 rats collected and sent to the Parel Laboratory, 146,478 were examined and 7,805 of these were found infected. The steady decline in the percentage of infected rats continued during the year. It was 5·3 in 1913 against 5·5 in 1912, 8 in 1911, 9·6 in 1910, 10·4 in 1909 and 12·3 in 1908.

In January the ratio of infected rats was 2·01 against 3·5 in 1912, but rose during the following months to 5·56 in February, and 10·8 in March, reaching the monthly maximum of 12·12 in April against 12·3 in the same month of 1912. The mortality from Plague showed a corresponding rise during these months, being 41 in January, 122 in February, 456 in March and in April 880, which is the highest number registered in any month during 1913.

The epizootic then gradually declined, so that the ratio of infection fell from 10·2 in May to 4·4 in July, 1·4 in September, reaching the minimum of 0·94 in October. Plague mortality followed a similar course; it declined to 729 in May, 79 in July, 41 in September and 33 in October. But while with the advent of the cold season the infection among rats exhibited a rise (1·5 in November and 2·2 in December), the Plague mortality continued to decrease and registered the lowest monthly figure of 8 during December.

STATEMENT SHOWING THE NUMBER OF RATS CAUGHT, EXAMINED AND FOUND INFECTED DURING THE YEAR 1913.

Months.	Total number of rats sent to the Parel Laboratory.	Number of rats examined.	Number of rats found infected.	Ratio of rats found infected per 100 rats examined.
January	69,551	16,808	339	2·01
February	59,301	13,791	767	5·56
March	63,292	16,002	1,729	10·8
April	57,426	16,023	1,943	12·12
May	48,547	11,891	1,216	10·22
June	37,838	7,209	390	5·4
July	42,854	8,836	389	4·4
August	42,895	7,849	234	2·98
September	48,853	8,545	126	1·47
October	54,332	11,032	104	·94
November	68,243	11,064	168	1·51
December	61,384	17,428	400	2·29
Total ...	654,516	146,478	7,805	5·32

Rat Plague and Human Plague.

The fluctuations of Plague mortality which have been described above as following closely on similar variations in the epizootic among rats will be found illustrated in the diagram facing this page.

(III) Evacuation.

With a view to encouraging evacuation of congested areas, Municipal Health Camps were, as in previous years, put up at Victoria Bunder, Agripada, Purbhadevi Road, Parel Government House, Baboola Tank, Gilder Tank and Mahim Gardens and Railway Station.

Semi-permanent Health Camps at Koliwada (Colaba), Northbrook Gardens, Arthur Road and Chinchpookli (at the junction of DeLisle Road and Arthur Road) were, in addition, maintained in a state of repair during monsoon months.

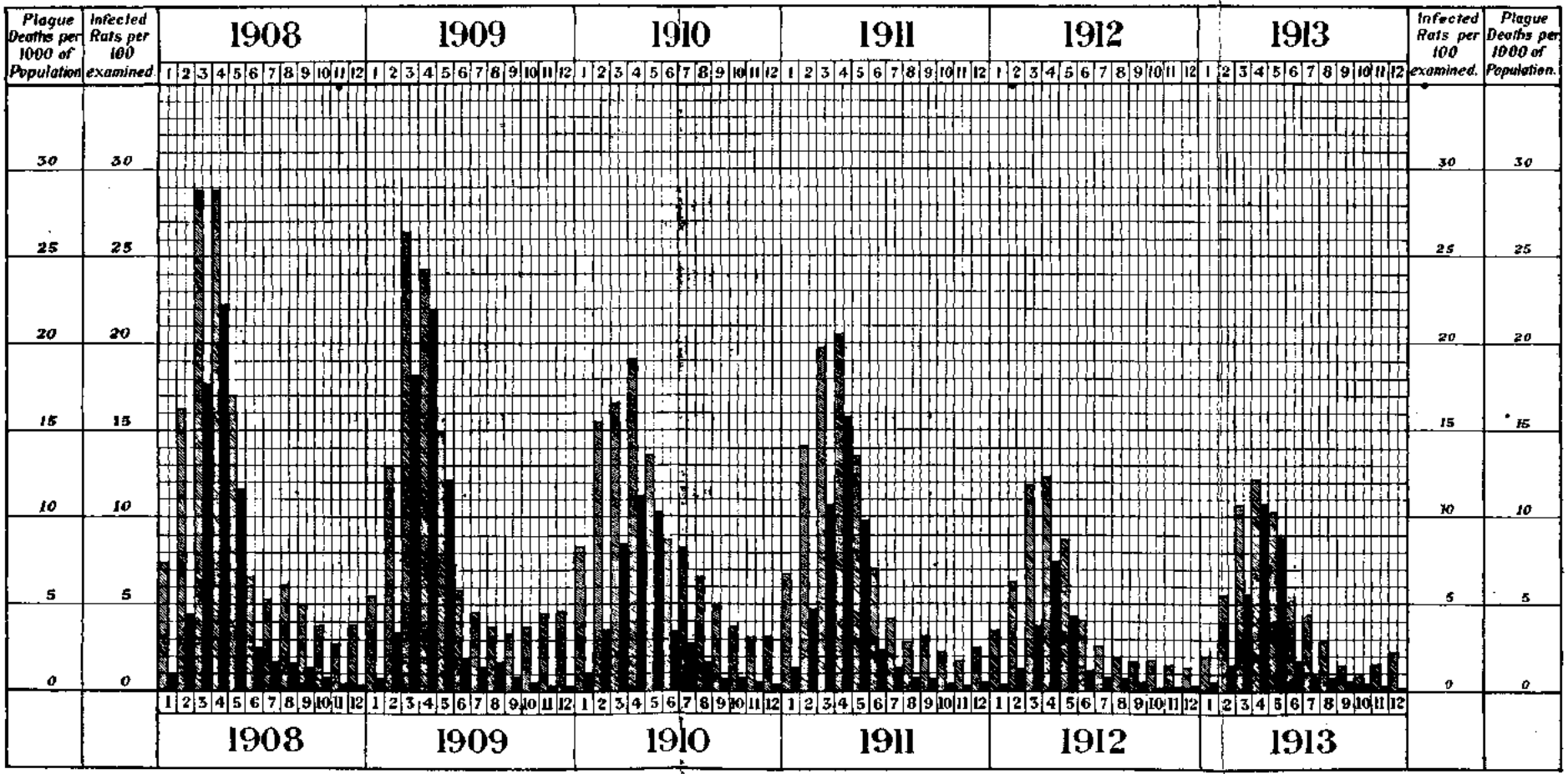
Besides these there were private Health Camps put up by the public at Vincent Road, Matunga and Mahim.

(IV) Disinfection.

As in previous years, every place where an infected rat was found or a Plague case occurred, was posterined and all gullies and passages between houses were similarly treated.

DIAGRAM

RELATION OF RAT PLAGUE TO HUMAN PLAGUE DURING 1908 TO 1913 (BY MONTHS).



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The following Statement gives details of disinfection done:—

On account of	Cases removed to Hospital.	Houses vacated.	Houses disinfected.
Precautionary Measures	.....	76	2,098
Dead Rats	.....	64	252
Plague	308	422	2,950
Suspicious Plague	6	5	31
Small-pox	182	12	454
Measles	12	.....	266
Chicken-pox	56	.....	76
Typhoid Fever	72	.....	269
Malarial ,, ...	23	.....	118
Remittent ,, ...	14	.....	11
Relapsing ,, ...	.....	.....	3
Cholera	34	17	174
Erysipelas	5	.....	12
Leprosy	.....	.....	8
Diarrhœa	23	.....	20
Tubercle of Lungs including Phthisis	222	.....	1,744
Other Tubercular Diseases	10	.....	24
Pneumonia	20	.....	11
Other Causes	160	6	382
Total ...	1,147	602	8,903

Small-pox.

The prevalence of Small-pox in 1913 does not call for any detailed comment, as the disease, though present throughout the year, did not reach epidemic proportions. The mortality (212) was less even than a fourth of that in 1912 (979).

The following Table exhibits the number of Small-pox attacks and deaths during the several months of the year, from which it will be observed that March, April and May were marked by increased incidence and the first month and the last four exhibit the least.

Months.	Small-pox attacks in 1913.			Small-pox deaths in 1913.		
	Males.	Females.	Total.	Males.	Females.	Total.
January	9	3	12	3	.....	3
February	30	17	47	9	7	16
March	59	33	92	26	15	41
April	58	66	124	32	32	64
May	48	29	77	21	17	38
June	19	12	31	4	5	9
July	13	11	24	12	5	17
August	9	7	16	6	5	11
September	5	1	6	3	1	4
October	4	2	6	.....	1	1
November	3	.....	3	2	.....	2
December	7	3	10	4	2	6
Total ...	264	184	448	122	90	212

448 attacks and 212 deaths were registered in 1913 against 1,585 and 979 respectively in 1912.

The year under report opened with a single case on 2nd January 1913. It was that of a Native Christian in Dhobi Talao who succumbed. In all 12 cases and 3 deaths were registered in January (against 121 and 54 respectively in the same month in 1912). 3 of the cases were imported—1 each from Murtizapur, Agra and Ahmednagar; all of them recovered.

In February 47 attacks and 16 deaths were recorded (against 240 and 114 respectively in 1912) and 92 attacks and 41 deaths in March (against 396 and 230 respectively in the preceding year); 4 of the cases in February were imported—1 each from Zanzibar, Poona, Busrah and Rutlam: all of them recovered. 6 of the cases in March were imported—1 each from Daravli, Ghat-Cooper, Surat and Poona and 2 from Coorla: with the exception of one, all recovered.

The height was reached in April and 124 attacks and 64 deaths were registered (against 385 and 253 respectively in 1912). 5 of the cases were imported: 1 each from Northern and Southern India and 3 from Poona District. All of them recovered except one.

The disease gradually began to decline from May when 77 attacks and 38 deaths were recorded (against 245 and 171 respectively in 1912): 3 of the cases were imported—1 each from Satara and Bandra and the third from the Harbour. Of these one succumbed.

In June and July 31 attacks and 9 deaths and 24 attacks and 17 deaths were respectively recorded (against 104 attacks and 84 deaths and 52 attacks and 45 deaths in 1912). 4 of the cases during the period were imported—2 from Poona, 1 from Junnar and the fourth from Damaun; all of these were among Hindus.

16 attacks and 11 deaths were registered in August (against 14 and 15 respectively in 1912).

During September to November only 15 attacks and 7 deaths were recorded (against 18 and 8 respectively in 1912). 3 of the cases were imported—2 from Calcutta and 1 from the Harbour. They were all among Hajees. While only 3 attacks and 2 deaths were recorded in November—the advent of the cold weather lent a sudden impetus to the incidence of the disease, which trebled itself in December and 10 attacks and 6 deaths were registered (against 10 and 5 respectively in 1912).

In short, of the total 448 cases during the year, 28 were imported, of which 2 were in connection with the Harbour and Shipping and 3 among Mahomedan pilgrims from the Haj. Of the 212 deaths, 5 were among persons newly arrived in the City; none among Hajis.

Vaccination of Pilgrims to the Haj

The Haj Season lasted from May to November. The total number of Mahomedan Pilgrims who embarked at Bombay for the Haj during 1913 was 15,319, of whom 11,198 were vaccinated in Bombay, prior to their embarkation, by the Vaccination Staff of the Health Department—62 males and 46 females primarily and 9,024 males and 2,066 females re-vaccinated. The percentage of pilgrims vaccinated in Bombay prior to their embarkation was 73·1 in the year under review and the highest since the introduction of the system among them, as will be seen from the subjoined Statement:—

Year.	No. of Pilgrims to the Haj embarked.	Number of Pilgrims Vaccinated.	Percentage of Vaccination.
1910	18,023	8,278	45·8
1911	22,856	15,140	66·2
1912	15,464	10,587	68·4
1913	15,319	11,198	73·1

Most of the others came vaccinated from outside and are reported to have held certificates of successful vaccination from such widely separated places as Singapore, Shrinagar, Lahore, Allahabad, Cawnpore, Lucknow, Hyderabad (Sind), Hyderabad (Deccan), Bhopal, etc.

A special Vaccinating Staff, including a Lady Vaccinator, was engaged by this Department as usual, for the vaccination of Pilgrims under the supervision of the Superintendent of Vaccination.

Small-pox by Sections.

The highest number of deaths from Small-pox was recorded in Byculla (32), giving the death-rate of 0·42 per 1,000 of the population in that Section ; next in order have to be mentioned Tarwadi (25) 0·84 ; Worli (17) 0·18 ; Mazagaon (16) 0·53 ; Parel (15) 0·32 ; Mahim (14) 0·45 ; Sion (13) 0·42 ; Tardeo (11) 0·39 ; Dhobi Talao (9) 0·23 ; Kamathipura (8) 0·21.

There was no death from the disease in the following Sections :—Upper Colaba, Middle and Lower Colaba, Fort Southern, Chukla, Khara Talao, Mahaluxmi and 1st Nagpada.

Small-pox by Sex and Age.

The sex distribution of the mortality shows that 122 deaths occurred among males and 90 among females.

55 deaths or nearly 25 per cent. are found to have occurred among infants under 12 months : 24 among males and 31 females. 52 deaths or over 24 per cent. were recorded among persons 1 to 5 years : 31 males and 21 females.

Nearly 40 per cent. or 84 deaths were registered between the age-groups of 5 to 25 years : 52 being males and 32 females.

9·9 per cent. or 21 deaths occurred among population between 25 to 50 years old ; of these 15 were males and 6 females.

Vaccinal condition of infants who died of Small-pox.

Of the 55 infants who died of Small-pox during the year, 6 were said to have been vaccinated and 45 not vaccinated at all ; in 4 cases the vaccinal condition could not be ascertained.

Vaccinal condition of children admitted into Hospital for Small-pox.

The information required by Government in General Department, under their Resolution No. 3231 of 21st May 1912, as to the vaccinal condition of children (under 10 years) who were admitted for and died of Small-pox during the year in the Arthur Road Hospital, is given in the following Table. In all 55 children were admitted into the Hospital during 1913 ; of these 31 were vaccinated and 24 unvaccinated. Of the vaccinated, 24 recovered and 7 died ; of the unvaccinated 17 recovered and 7 died.

Age.	Vaccinated.				Unvaccinated.			
	Admitted.	Recovered.	Died.	Case-rate.	Admitted.	Recovered.	Died.	Case-rate.
1 to 6 months	1	...	1	100	2	1	1	50·
7 to 12 months	1	1	...	...	1	1	...	...
1 to 5 years	17	14	3	17·64	18	13	5	27·7
6 to 10 years	12	9	3	25·0	3	2	1	33·33
Total ...	31	24	7	22·5	24	17	7	29·1

Vaccination.

There are 15 Public Vaccination Stations in the City, of which 3 are worked on every Monday morning and 2 every morning during the rest of the week ; while that at Kalbadevi Road is open every Sunday, morning and evening.

Vaccination is a routine duty of the Department throughout the year. But special efforts are made to push it on during the cold weather. Leaflets of precautions against Small-pox are distributed freely in the City and the Registrars and Vaccination Staff pay visits to houses, chawls and all affected areas to find out unprotected persons, vaccinating and re-vaccinating people in large numbers.

Vaccine operations.

The total number of vaccine operations performed during the year was 36,066 showing a decrease of 1,974 below that of 1912, but an increase of 7,311 over the decennial average of 1903-1912.

Yearly Return of Vaccination (excluding Bandra and Kurla) from the Superintendent of Vaccination, Bombay, for the Year 1913.

| Primary Vaccine Operations | | |

Fevers.

Under the general heading of "Fevers" the following are included:—Scarlet, Enteric, Malaria, Ague and Remittent and Relapsing Fevers. The total number of deaths from all these types of fevers during the year under report was 3,043, being 542 less than in the year preceding, 166 less than the quinquennial average (1908-1912) and 204 below the average of the preceding 10 years (1903-1912).

154 deaths were attributed to Enteric Fever, being 2 more than in the last year and 23 more than the quinquennial mean. 261 deaths were due to Malarial Fever, being 99 less than in 1912 and 61 below the average of the antecedent five years.

Ague and Remittent Fever caused 2,624 deaths, being 446 less than in 1912 and 53 less than the quinquennial mean. Relapsing Fever caused only 4 deaths against 2 in the previous year and 75 less than the average of the past five years.

Scarlet Fever was absent during the year.

The following Statement gives the monthly variations of mortality in 1913 from all kinds of fevers in general, as also from Malarial Fever in particular. The maximum mortality was registered as usual in October from Malarial (41) as well as from all Fevers (296) and the minimum in June under the former (13) and in July under the latter cause (193).

TABLE SHOWING THE NUMBER OF DEATHS FROM ALL FEVERS AND MALARIA BY MONTHS FOR 1913.

MONTHS.	Number of deaths from all Fevers.	Number of deaths from Malarial Fever.
January	242	20
February	226	15
March	270	18
April	263	20
May	292	19
June	240	13
July	193	14
August	254	20
September	264	25
October	296	41
November	268	36
December	235	20
Total ...	3,043	261

The annual movements of Fever Mortality from 1903—1913 are indicated in the following Table :—

Year	No. of Deaths.
1903	2,500
1904	2,530
1905	2,878
1906	4,882
1907	3,633
1908	3,403
1909	2,800
1910	3,113
1911	3,146
1912	3,585
Average (1903—1912)	3,247
1913	3,043
More or less	—204

Anti-Malarial operations.

During the year the Gowalia and Dhobi Talao tanks were completely filled in. The Mustan Tank, Cawasji Patel Tank and Nawab's Tank in Mazagon are being filled in. Action was taken in respect of 19 big tanks and quarry-holes, &c., which were found breeding larvæ. In 531 cases the sanction given by the Standing Committee for dealing with wells was enforced and in 360 cases the requisitions were complied with. 2 Municipal wells have been filled in and 6 hermetically covered, 5 with wood and 1 with concrete. The work of covering

and properly protecting the cisterns over public latrines and urinals in the City was completed during the year and the lids were kept under lock and key. With a view to educate the public in the cause and prevalence of Malaria, 7 lectures and demonstrations with the help of magic lantern slides were given by the Malaria Department at various Institutions. Reports of places where larvæ were found were published every week in the local English and Guzerathi Dailies for the information of the public. In all 51,604 tabloids of quinine Hydrochloride (13,150 of ii grains each and 38,454 of iv grains each) were distributed free during the year amongst the poor, who were visited in their homes and amongst Charitable Institutions in the City.

The Registrars of all the Districts together distributed 31 lbs. 12 oz. and 48 grains of quinine in the different Sections of the City; this quantity is inclusive of that received from the Malaria Branch for such distribution. Special care was also taken as usual to gauge the incidence of Malaria by taking spleen census and parasite index. In all 18,613 children were examined for spleen by the Malaria Department, of these, 1,094 were found with enlarged spleen. The spleen rate for the whole City was 5·87 per cent. The District Registrars examined 14,348 children attending their Dispensaries and of these, 1,615 had enlarged spleen.

A detailed account of the work done during the year by the Malaria Department will be found in the appended Report by Dr. K. B. Shroff, Special Assistant to Health Officer, Malaria.

Cholera.

Owing to the importation of numerous Cholera cases from the Districts, chiefly Thana and Poona, by the pilgrims from the fairs at Nirmal and Alandi, the incidence of the disease received a sudden impetus in December 1912; and although the outbreak exhibited signs of abatement during the latter part of the month, it continued well into the year under report: the decline was slow but steady. In January 1913, 59 cases and 49 deaths were registered. 4 of the cases were imported from Santa Cruz, Ganagapur, Pen (Kolaba District) and Savantvadi, and 3 proved fatal.

In February 15 attacks and 15 deaths and in March 11 attacks and 5 deaths were recorded. In February only one case was imported from Ghatkoper, which proved fatal. None in March.

There was a further reduction in the incidence of the disease in April, May and June. 14 seizures and 12 deaths were recorded during the period. Of the 14 cases, 2 were imported from Jejuri, of whom 1 succumbed.

During the next four months a slight rise was visible; 51 attacks and 34 deaths were registered; 11 of the cases were imported — 2 from Pandharpur and one each from Thana, Kotah, Poona, Mangalore, Calicut, Manmad, Bulsar and Basrah. One case was in connection with the Harbour and Shipping. 7 of these proved fatal.

November registered 6 cases and 4 deaths and December 9 cases and 6 deaths. In the former month 4 of the cases were imported—3 from Pandharpur and 1 from Balapur (Akola): of these 2 proved fatal. Only one case was imported in December from Calcutta.

Thus the total number of deaths registered from the disease during the year under review was 125, including 14 among new arrivals not belonging to the City; the number of seizures was 165, including 23 imported cases—only one from the Harbour and the rest from the mofussil. In 1912, 2,308 attacks and 1,790 deaths had been recorded.

Cholera by Race and Sex.

Of the 125 deaths from Cholera, 95 occurred among Hindus of all Castes, 62 being males and 33 famales, 16 among Mussalmans—12 being males and 4 females.

Native Christians recorded the next highest mortality (9): 4 among males and 5 among females. Parsees stand next with 3 deaths—2 males and 1 female.

Two deaths occurred among Europeans (female).

The sex distribution of the mortality was 80 males and 45 females.

Cholera by Sections.

The death-rate for the whole City was 12. The Sections which registered a higher rate were as follows in the order of incidence:—Market (·33—10 deaths), Parel (·26—12 deaths); Dhobi Talao (·25–10 deaths); Kumbharwada (·25—7 deaths); Dongri (·22–6 deaths); Umarkhadi (·17—8 deaths); Mazagon (·16—5 deaths); Middle and Lower Colaba (·15—3 deaths); 1st Nagpada (·15—1 death); Tarwadi (·14—4 deaths); Kamathipura (·13—5 deaths); Byculla (·13—10 deaths) and Worli (·13—12 deaths).

All the other Sections recorded rates lower than the general Cholera death-rate of the City.

There was no death from the disease in Upper Colaba, Fort Southern, Walkeshwar and Sion.

Cholera by Sex and Age-groups.

Of the total of 125 deaths from Cholera, 6 (3 males and 3 females) or 4·8 per cent. occurred among population 5 to 15 years of age. 95 deaths (63 males and 32 females) or 76 per cent. were registered among persons in the age-group of 15—40 years. 21 deaths (13 males and 8 females) or over 16 per cent. were recorded among population 40—60 years of age and 2 deaths (1 male and 1 female) among persons in the age-group of 60 years and upwards.

There was no death from the disease among children up to 2 years of age; and one in the next age-group (2—3) years.

Measles.

From Measles 222 deaths were registered, being 12 more than in 1912 but 133 less than the average of the previous five years.

Influenza.

Influenza registered 1 death against 3, the average of the preceding five years, there being no death from Influenza in 1912.

Whooping Cough.

Whooping Cough caused 9 deaths, being 13 less than in the previous year and 3 less than the average of the antecedent five years.

Diarrhœa.

From Diarrhœa 2,353 deaths occurred, being 634 less than in the foregoing year but 189 more than the average of the last five years.

Dysentery.

From Dysentery 820 deaths were registered, being 737 and 364 less than in 1912 and the average of the preceding five years respectively.

Puerperal Septicæmia.

To Puerperal Septicæmia 281 deaths were due against 417 in the last year and 375 the average of the foregoing quinquennium.

Leprosy.

Leprosy caused 90 deaths, being 6 less than in the preceding year but 2 more than the average of the previous five years.

Cancer.

To Cancer 64 deaths were due, being 3 less than in 1912 but 7 more than the average of the preceding five years.

Premature birth.

The number of deaths amongst children born prematurely was 181, being 38 less than in the foregoing year but 7 more than the quinquennial mean.

Debility.

Debility caused 2,289 deaths, being 414 and 465 less than in the previous year and the average of the antecedent five years respectively.

Old Age.

From Old Age 1,651 deaths were registered, being 453 less than in 1912 and 309 less than the average of five years (1908—1912) respectively.

Diseases of the Nervous System.

To the Diseases of the Nervous System 1,965 deaths were attributed, being 271 less than in the preceding year and 129 less than the average of the previous quinquennium.

Diseases of the Circulatory System.

To the Diseases of the Circulatory System 354 deaths were due, being 34 less than in the foregoing year but 18 more than the average of the preceding five years.

Tuberculosis.

Tuberculosis caused 2,152 deaths, being 642 less than in 1912 and 690 less than the average of five years (1908—1912).

Phthisis.

Of these, 1,633 deaths were due to Phthisis, being 546 less than in the preceding year and 635 less than the average of the previous five years.

Diseases of the Respiratory System.

The Diseases of the Respiratory System caused 8,604 deaths, being 1,082 less than in 1912 and 89 less than the mean of the preceding quinquennium.

Diseases of the Digestive System.

To the Diseases of the Digestive System 1,237 deaths were ascribed, being 123 less than in the previous year but 52 more than the average of the antecedent five years.

Diseases of the Lymphatic System.

To the Diseases of the Lymphatic System 11 deaths were due against 13 in 1912 and 18 the average of the last five years.

Diseases of the Urinary System.

From the Diseases of the Urinary System 298 deaths were registered, being 84 and 11 less than in 1912 and the mean of the previous five years respectively.

Diseases of the Generative System.

To the Diseases of the Generative System 161 deaths were due, being 5 more than in the preceding year and 14 more than the average of the quinquennium (1908—1912).

Diseases of the Organs of Locomotion and Connective Tissue.

The Diseases of the Organs of Locomotion and Connective Tissue occasioned 99 deaths being respectively 32 and 14 less than in 1912 and the mean of the previous five years.

Accidents.

The number of deaths from Accidents and Violence during the year was 660, being 20 less than in the previous year and 58 less than the mean of the antecedent five years. Of these, 65 deaths were due to poisoning, being 14 and 12 more than in the previous year and the average of the preceding five years respectively. Of these 38 were suicidal, 17 accidental, 1 homicidal, 5 from Snake-bite and in 4 cases the circumstances under which the poison was administered were not known. 86 deaths were due to drowning, being 8 less than in 1912 and 20 less than the average of the antecedent five years. Of these 30 were suicidal, 35 accidental and in 21 cases the circumstances under which the deaths took place were not known.

Municipal Dispensaries.

The twelve Municipal Dispensaries, including the two opened in 1912—one at Parbhadevi Road and the other "Bai Gowrabai Dispensary" at Kamathipura-were open throughout the year to administer, as in the past, free medical relief to the sick poor of the City. In order to assist the public in identifying the Dispensaries at night, a distinctive coloured gas light, burning all night, has been put up at each since 1st January 1914 (with the exception of Parbhadevi Dispensary) with words "Municipal Free Medical Relief" painted on it in English and the prevalent vernacular of the locality. The Dispensaries are also Registration Offices, where a Municipal servant is always present to attend to any call and send for the Registrar, Sub-Registrar or Nurse in case of necessity at night. Such lighting of Parbhadevi Dispensary has, however, to wait till gas mains are laid in the locality.

The actual number of new cases (individuals) treated at the Dispensaries was 88,393 (59,168 males and 29,225 females) against 80,106 in 1912, making 348,204 the total number of attendances against 381,416 in the previous year. Of these, 1,808 patients were seen at their houses.

The diseases treated at these Dispensaries were Fevers, Plague, Small-pox, Measles, Diarrhœal Diseases, Diseases of the Digestive, Respiratory, Nervous, Circulatory, Urinary and Generative Systems, and other general and local diseases.

The actual number of new cases individually treated at the Colaba and Victoria Bunder Charitable Dispensaries (to which a contribution is paid by the Municipality and which are under the direct control of the Registrar No. 1 District, who visits them daily), was 8,469 (6,242 males and 2,227 females) making 27,420 the total number of attendances; out of these, 30 patients were seen at their residence.

Visiting Nurses.

During the year, the Nurses and Midwives working under the District Registrars paid 33,791 visits to houses, chawls and huts and enquired into 4,326 cases of ordinary sickness, 1,284 cases of Infectious Diseases and 1,608 deaths among the female population of the City. They also attended 1,200 confinements against 949 in the previous year and ascertained 9,044 births.

Notification of Infectious Diseases.

1,765 Notifications of Infectious Diseases were received during the year against 1,687 in 1912. Of these 1,233 were of Plague, 84 of Phthisis and other Tubercular Diseases and 448 of other Infectious Diseases.

From Hakims and Vaidyas 34 Notifications were received and on investigation by the Medical Men of the Department the diseases mentioned in 30 of them were found correct.

Certification of the Cause of Death.

The number of Certificates of the Cause of Death received during the year was 8,903 against 9,942 in 1912; of these 4,620 were from qualified Medical Practitioners against 4,891 in the previous year, 236 from Hakims and Vaidyas and 3,001 from various Hospital Authorities. The causes of 728 and 318 deaths were certified by the Commissioner of Police and the Coroner of Bombay respectively. The cause of 626 deaths was certified by the Registrars after seeing the persons during their last illness and the cause of 21,764 deaths was verified by the Registrars, on the information gathered from the relatives of the deceased, and of 501 deaths after seeing the dead bodies. In 12 cases the cause could not be ascertained as the residence of the deceased could not be traced.

During the year further facilities were given to the Medical Practitioners for notifying cases of Infectious Disease and certifying the cause of death to this Department. Stamped envelopes with the printed address of the Executive Health Officer have been supplied to the Medical Men in the City since June 1913, and it is very satisfactory to observe that the percentage of Notifications received during the year rose to 15·07 and of Certificates of Cause of Death to the total mortality to 15·26 from 11·32 and 13·29 respectively in 1912.

	No. of Notifications received from			Percentage of total notifications to number of cases reported by District Registrars.	Number of Certificates of Cause of Death received from			Percentage of total Certificates received to Total Mortality.
	Medical Practitioners.	Hakims & Vaidyas.	Total.		Medical Practitioners.	Hakims & Vaidyas.	Total.	
1910	1,487	68	1,555	11·29	2,894	134	3,028	8·66
1911	1,551	53	1,604	11·63	3,994	287	4,281	12·24
1912	1,687	31	1,718	11·32	4,891	289	5,180	13·29
Average.	1,575	51	1,626	11·41	3,926	237	4,163	11·47
1913	1,765	34	1,799	15·07	4,620	236	4,856	15·26

Certificates issued.

During the year, 837 copies of Certificates of Registry of Death and 140 of those of Birth and 16 true copies of Birth and Death Reports were issued and the total fees received on account of them and for searches of Birth and Death Registers for indefinite periods as well as for producing such Registers in Courts of Law amounted to Rs. 1,288-0-0 against Rs. 1,582-12-0 during 1912.

Notices under the Act.

The number of notices served by the Health Department during the year under the various Sections of the Municipal Act was 3,402 against 4,814 in 1912. Of these, 1,752 were complied with, 1,177 were not complied with, 180 cancelled and 293 were pending at the close of the year.

In 2,370 cases summonses were issued by the Presidency Magistrates at the instance of this Department against 2,524 in the previous year. Convictions were obtained in 689 cases and in 767 the parties were warned and discharged; 28 cases were dismissed; 869 withdrawn, the offences having ceased. 17 cases were pending at the close of the year. Of the notices, 14 were issued in E Ward against overcrowding and 5 of them were complied with, 5 were cancelled and 4 were pending. No summonses were issued for non-compliance with the notices against overcrowding.

Conservancy Work.

During the year, 690,632 carts of kutchra, drain stuff and other matter were emptied at the Tardeo Flats and other places in the City against 717,806 carts in the previous year. Of these, 534,022 were Departmental and 156,610 private.

111,435 night-soil and cesspool carts and 4,216,949 night-soil baskets were emptied at the several Night-soil Depôts in the City during the year under report, as compared with 114,119 night-soil and cesspool carts and 4,363,785 night-soil baskets in 1912. All the night-soil carts were Departmental.

In 27 cases, the sanction of the Standing Committee for requiring owners of properties to provide new or additional privies or water-closets or to convert old privies into water closets was enforced and in 12 cases the requirements were complied with.

ADMINISTRATION OF PUBLIC HEALTH.

Divisions of the City: (1) Wards.

For administration purposes, the City has been divided into seven Wards, each under the subordinate charge of a Deputy Health Officer, who is responsible for both the conservancy and sanitary work of his Ward. The Deputy Health Officers are assisted by a staff of Sanitary and Conservancy Inspectors, Assistant and Sub-Inspectors. The Deputy Health Officers are under the direct control of the Executive Health Officer, who is assisted by two Assistants.

(2) Registration Districts.

For the purposes of the Registration of Births and Deaths and free Medical Relief, the City has been divided into ten Districts with ten Municipal Charitable Dispensaries, each in charge of a Registrar with 2 Sub-Registrars and one trained Visiting Nurse and Midwife. In addition to these ten Dispensaries, two more were opened in 1912, one at Parbhadevi and the other "Bai Gowrabai Dispensary" at Kamathipura and are under the control of Registrars Nos. 10 and 8 Districts respectively. Each of the District Offices is equipped with staff for registering births and deaths, enquiring into the cause of death, checking Cemetery Returns and for disinfecting houses and rooms where cases of Infectious Diseases may have occurred or dead rats may have been reported. The work of the Registrars is supervised by the Deputy Health Officers and the Executive Health Officer with his two Assistants.

There is also a Special Assistant Health Officer in charge of the Arthur Road Hospital for Infectious Diseases and the Maratha Hospital for Plague.

There is also a Special Assistant to the Health Officer for Malaria, in charge of the special Malaria Department.

Municipal Laboratory.

For analytical and bacteriological examination, there is a Municipal Analyst in charge of a fully equipped Chemical and Bacteriological Laboratory, where chemical analysis and bacteriological examination of Municipal Waters is conducted by him.

Veterinary Establishment.

The Veterinary Staff includes four Inspectors with a Shalotri, who are all qualified Veterinary Surgeons and inspect the Milch Cattle Stables in the City and the Municipal Bullocks and are in charge of the Municipal Bullock Hospital.

Vaccination Establishment.

The Vaccination Staff includes, besides the Superintendent and the Assistant Superintendent, ten Vaccinators, one Head Clerk and four subordinate clerks.

The Conservancy and Sanitary Staff, exclusive of the labour staff, consisted in 1913 of—

Inspectorial Staff.

1	Conservancy Superintendent.
2	Chief Inspectors.
8	Sanitary Inspectors.
9	Conservancy Inspectors.
1	Loading Siding Inspector.
6	House Drain Inspectors.
7	Assistant Sanitary Inspectors.
67	Sub-Inspectors.
1	Halalkhor Inspector.
5	„ Sub-Inspectors.

Halalkhor Strike.

A majority of the 2,000 of the halalkhors in Municipal employ and doing afternoon work struck work on 30th June 1913 on the plea that the extra remuneration of rupee one paid for afternoon work was not enough, as they could earn Rs. 4 to 5 by doing other work in the afternoon. They also complained that the fines for short trips or absence from muster amount to more than a rupee per month paid for afternoon work; that Inspectors and Muccadams exacted money and they had to pay large sums for an appointment or a room in a Municipal chawl; that after returning from morning work at 10, there was no water and the women had no time to prepare meals as they had to go to work again at 2 P.M.

That the organisation of the strike was complete points to its having been quietly arranged for some time and no information was forthcoming until the morning of the 30th June when I received a telephone message from the Conservancy Superintendent.

The afternoon service was introduced in 1904, as will be seen from the Corporation Resolutions Nos. 4229 of 1st February 1904 and 4454 of 18th February 1904. The halalkhors are expected to work two hours in the afternoon.

The Superintendent of Conservancy was appointed with a view to looking into the working of the Conservancy Staff—bigaries and halalkhors and their superiors. In many cases the work was found to be unsatisfactory and irregular, due chiefly to want of adequate supervision.

The labour staff is ignorant, as a rule, and generally a lazy class, but the work is arduous and unpleasant and they are only too ready to take advantage of any opportunity given them to scamp work. The result is they are fined sometimes judiciously, sometimes without sufficient reason; but with the large number and the class of people to be dealt with, it is difficult to accurately judge the merits of each case but, if not punished, they will do no work at all.

In my report to the Commissioner submitted under No. 12014 of 4th July 1913, in connection with the strike, the chief points I referred to were as under:—

1. The labour gets dearer and scarcer every year in Bombay.
2. The halalkhors can now obtain work from which they were formerly debarred; this makes them more independent.
3. They are better organised and get more assistance when organising a strike.
4. They have grievances, some real, some of their own making.
5. They are well paid. A man and wife can get Rs. 25 per month and 80 per cent. of them live in rooms provided by the Municipality at 0-10-0 annas per month per room for a man and 0-10-0 annas per woman. In addition they get *bukshish* and perquisites. They are always in debt, live above their pay and are squeezed by Marwaris and others.

The cause of the strike was increased supervision of the work, chiefly afternoon work and the custom of *dustoorie*. I have no hesitation in saying that had due attention been given to this particular work, the sudden and strict supervision would not have been necessary, the men would not have gone on strike. Had the Muccadams and the Trip-markers been properly supervised by the Inspectors, there would have been no necessity for the surprise visits and the action caused by the results of these visits.

It is quite difficult enough to get this gigantic body of labour to work smoothly at all, but to get the work properly and conscientiously done and raise the standard requires all our ingenuity and constant supervision.

I have always maintained that the supervising staff is not strong enough and that fresh blood and more Europeans are necessary from time to time. It is quite possible for even the best intentioned Inspector to try and take things easily at times, as his work is arduous and disagreeable; and it is necessary, though very unpleasant, to constantly have to do so to keep them up to high pressure. Strict supervision and exacting work bring in their train petitions from halalkhors and bigaries against their superiors for *zoolum* and *dustoorie*.

To get at the bottom of this would require a special Criminal Investigation Department of our own; on many occasions I have asked the aid of the Police and never had a satisfactory reply.

Hundreds of cases have been enquired into but no reliable evidence is forthcoming. These inquiries, however, have had a salutary effect upto a certain point.

The Corporation having requested a report "as to whether it is a fact that Inspectors and Muccadams of the Health Department have been found guilty of extorting *dustoorie* from halalkhors, and if so how their cases have been dealt with" (Resolution No. 2892 of 11th August 1913), I reported to the following effect (No. 20116 of 15th September 1913):—

Neither Inspectors nor Muccadams of this Department have hitherto been actually found guilty of extorting *dustoorie* from halalkhors.

It may, however, be mentioned that there seems little doubt that the practice of giving and receiving *dustoorie* does exist; for complaints about its exaction are off and on made in writing to the Commissioner as well as to me. Unfortunately, however, most of the complaints are either anonymous or pseudonymous, and investigation into the truth or otherwise of the allegations contained therein has for this reason, been most difficult—nay, impossible; in the few cases where the complaints bore any stamp of genuineness in being over the mark of halalkhors in our employ, enquiry has failed to elicit any reliable information, such as could lead to the discovery of facts and the detection of culprits. The halalkhors from whom the complaint appeared to emanate have, on being questioned on the subject, either denied all knowledge of the complaint and the allegations therein, or made statements so vague and indefinite as scarcely to make it worth while pursuing the inquiry any further with hope of success. No evidence worth the name was ever found to have been adduced to strengthen or illumine any suspicions roused by the suggestions or allegations in the complaint. Nor can it be overlooked that sometimes such complaints emanate from dismissed or discontented halalkhors and are the outcome of jealousy or ill-will against their fellows in service or grudge against the Inspector or Sub-Inspector. Sometimes an Inspector or Sub-Inspector keen or enthusiastic in his work and severe in exacting it runs the risk of becoming the target of such complaints, so that he may relent or relax.

Every complaint mentioning or suggesting the exaction of *dustoorie* is most carefully enquired into by the Deputy Health Officer and my Assistants and, if necessary, by myself; and if it has not been hitherto possible to bring offenders to book, sheer want of evidence alone has been responsible for the failure of our investigations. Where suspicion is strong but not such as to warrant punishment, transfers are ordered and warnings given.

Great vigilance has always been exercised to prevent the levy of *dustoorie* and no halalkhor is enlisted unless he records a declaration that he has neither paid nor promised to pay any *dustoori*. The questions are put to him in his own vernacular and his answers duly recorded and it is to a large extent his own fault if he pays money for his appointment. Placards in vernaculars are put up at the Stables where the halalkhors are mustered and in their chawls to warn them that payment of *dustoorie* to those above them will be met with dismissal; and that the latter found guilty of demanding or receiving *dustoorie* will be handed over to the Police for being dealt with. The appointments and transfers of halalkhors are made generally by the Deputy Health Officers, sometimes by the Assistant Health Officers and myself.

I have every hope that with the information I have received we may be able to rearrange the system so as to reduce the custom considerably, if not altogether eradicate it.

It is ingrained in the native labourer and his immediate superiors and is a custom handed down from father to son and this will be difficult to disturb, but I have great hopes of supressing that form which extorts money from these men when they are appointed. They all know it is contrary to regulations and each new applicant has been warned against giving *dustoorie*.

On the day of the strike (30th June 1913), when the halalkhors were assembled on the Maidan, the Officers of this Department tried at first to persuade the men to go to work but when it was found that they were obstinate and refused to work, sterner means had to be taken. With the sanction of the Municipal Commissioner, information was laid before the Magistrate and Summonses for contravening Section 3 of the Bombay Municipal Servants' Act issued against 12 persons, who were representing the halalkhors. The case was, however, adjourned to the next day (1st July 1913) on each of the accused undertaking forthwith to return to work and to use his influence to induce others to do so. As nine of the accused had returned to work on 1st July 1913, they were warned and discharged by the Magistrate. The case against the other three accused was heard on 3rd July 1913 and they were warned and discharged, as they had returned and attempted to resume work on the morning of 1st July 1913.

It is, however, worthy of note that none of the halalkhors of F Ward took any part in the strike, but remained loyal working as usual throughout the strike and were, in recognition of the fact, suitably rewarded as also the Muccadams and cesspool cart-drivers.

Improvement of Insanitary areas.

During the year the question of improving insanitary areas and houses unfit for human habitation was much discussed but nothing done.

A Committee was appointed by Government to consider the report made by Mr. J. P. Orr, Chairman of the Improvement Trust, on the amendment of Building Bye-laws.

The Government of Bombay appointed a Development Committee to consider the future development of Bombay and Town-planning.

The Municipal Corporation have appointed a Committee to consider the amendment of the Building Bye-laws.

The question of improvement of insanitary areas in Bombay and the representations made to the Improvement Trust are now ancient history.

So much has been said in previous Reports and in the evidence given before the Development Committee and on Mr. Orr's lecture and to the Light and Air Committee, that it is hardly necessary for me here to repeat the arguments for a more rapid improvement of insanitary areas and individual houses. The position is shortly this :—

(1) That representations to the Improvement Trust on certain insanitary areas have met with very little practical response.

(2) That since the repeal of the Epidemic Diseases Act and the withdrawal of the powers by the Corporation to the Executive and the abolition of the House Improvement Branch for dealing with houses unfit for human habitation, nothing has been done in this direction.

Representations made by the Health Department have had little effect.

Since 1903, 15 insanitary areas were represented—

1. Nowroji Hill.
2. Kalapani.
3. Madanpura.
4. Tank Pakhadi.
5. Middle Colaba.
6. Kamathipura.
7. 2nd Nagpada.
8. Vithalwadi.
9. Telwadi.
10. Gujri Bazar.
11. Umarkhadi.
12. Kolbhatwadi.
13. Vandekar Lane.
14. Tulsirampada.
15. Fort North.

Of these, part of Nowroji Hill, part of Kalapani, part of Tank Pakhadi, part of 2nd Nagpada and Vandekar Lane have been taken in hand.

The condition of the majority of the insanitary areas represented in 1903 is as bad as or worse than it was ten years ago.

To combat and counteract and improve the health conditions of a City like Bombay, several factors have to be considered.

I have no hesitation in repeating what has so often been said before: that improvement in the public health of Bombay cannot take place while the existing conditions remain. These conditions are the overcrowded unhealthy areas and the defective system of collection, removal and disposal of night-soil and the condition of storm-water drains and sewers.

To teach and preach sanitation, to attempt to control the spread of Plague, Cholera, Small-pox and Tuberculosis is difficult enough when we have to overcome the difficulties arising from ignorance and superstition; but when the people have to live as they do now and when our work is hampered by defective sanitation, the task becomes almost impossible.

While making these remarks, I do not lose sight of the various improvements carried out by the Improvement Trust, by the increase in the water supply and the money spent on the outfall of the sewerage; but it is my duty to set forth in the Annual Report a statement to the Local Sanitary Authority, namely, the Corporation, that we are moving very slowly in the most vital questions of public health.

I have, therefore, arranged for a house-to-house inspection being made of the City and a report will be submitted this year, on which, I trust the Corporation will take active measures.

With regard to the system of open drains and storm-water drains and sewage disposal, I have spoken very strongly on several occasions, and I most respectfully again submit my opinion that we are far below the standard required for this rapidly expanding City and I strongly urge on the Corporation to appoint a Committee to inquire into the present system and take early steps to put it on a more modern basis.

To recapitulate what I have urged for so many years and which, although under consideration, has not been carried out and cannot be done without the immediate active co-operation of the Engineering Department, which has its hands very full:—

(1) The insanitary areas.

(2) Houses unfit for human habitation.

Open drains, storm-water drains, privies on basket system, collection, removal and disposal of sewage.

(3) The nuisance caused by the Pumping Station at Love Grove.

The Storm-water Reservoir and the open drain from Bellasis Bridge to Love Grove.

(4) The destruction of refuse by Destructors.

(5) The housing of the Labour Staff.

(6) The improvement of Markets, Slaughter-House and Food-supply.

Medical Inspection of School children.

I mentioned in my last Report that with a view to furnishing the Schools Committee with an estimate of the cost of undertaking a physical Census of School children, an experimental examination of the physical condition of children had been commenced; on its completion during the year under review, the following report was forwarded to the Schools Committee:—

"The following is an example of an experimental examination of the physical condition of four Schools in Bombay.

The examination was conducted by four District Registrars—qualified Medical Men under the supervision of the Senior Assistant to the Health Officer.

The work was carried out with a view of estimating the expenditure required to carry out a complete physical Census of the children attending Municipal Schools in Bombay.

The work was performed at the time stated to be most convenient to the Headmasters:—

Of the 313 children examined	Per cent.
Vision was defective in	21·40
Hearing " " "	14·05
Teeth were " "	43·76
Throat and nose " "	41·53
Glandular enlargement existed in	6·70
Head and body uncleanly in...	37·69
Clothing uncleanly in	47·92

These figures indicate that it is desirable to obtain information on a larger scale.

From the experience gained in this experiment on a small scale, it has been ascertained that on an average 10 minutes are required for the examination of each child, exclusive of time taken in recording the weight and height of each child and of entering the name, age and address of each child; this information was supplied by the Headmasters; the weight and height were not recorded owing to there being no apparatus for the purpose. In conducting a Census on a large scale, these points would be attended to by the Nurse.

Assuming that there are roughly 16,000 children to be examined—one man working continuously for 8 hours per day would take about 333 days to finish all the School children.

On the average there are 78 holidays, and in addition 52 Sundays which are also recognised as School Holidays, some of which, however, will probably coincide with the various caste public holidays. Allowing, say that 10 such Sundays will occur in a year—we have 365 less 78 and less 42—245 working days. So that one man working hard for 8 hours per day could not finish the Census in one year.

It is almost impossible that one man could stand the physical strain of 8 hours continuous labour per day for such a period; and, moreover, the estimate above given makes no allowance for time taken in going from one School to another and does provide for absolutely consecutive periods of 10 minutes for each child for 8 hours per day. This, as already stated, is practically impossible.

To do the work properly and to avoid scamping, three men working whole time would be necessary. That is the number required if the Schools Committee elect to employ whole time men. These men would probably finish the work in about five months.

As the work in the first instance would be of a temporary nature and as it is very desirable to obtain reliable information, it is suggested that the pay offered for such work should be fixed at Rs. 175 per month.

The alternative to this, is to employ the District Registrars to examine the children in the Schools in their several districts. Although the District Registrars are 10 in number, almost the same amount of time would be occupied in completing the Census, as it is not possible to spare their services for more than say 2 hours per day and at certain times of the year even that period could not be devoted to the purpose. It so happened that when the recent experiment was carried out no disease was epidemic at the time.

As the work is onerous and exacting, an allowance of Rs. 50 per month should be made to each Registrar during the period he is actually engaged in carrying out the work.

If the Committee decide to requisition the services of the Registrars, it must be pointed out that their services could only be utilized, subject to the exigencies of departmental work—an allowance for which would naturally be made in favour of the Schools Committee in calculating the remuneration of the Registrar concerned.

On the whole it is recommended that the employment of three whole time men would probably be the more satisfactory arrangement.

From the list of Schools supplied by the Committee, it appears that there are 35 Girls' Schools.

It is distinctly desirable that the examination of the height, weight, head and skin of the children in these Schools should be conducted by a nurse and further that a nurse should be present when the children are being examined for hearing, eye-sight, etc.

When not engaged in this work, the nurses must record height and weight of the children in the Boys' Schools. I consider that 3 nurses are necessary for the purpose and suggest as remuneration Rs. 75 per mensem.

A considerable amount of clerical labour is involved in the Scheme. The forms are filled in by the District Registrars themselves, but a summary is necessary.

This clerical labour could be carried out by the clerks in the District Registrar's Office—to whom an allowance of Rs. 5 a month should be given.

Similarly in Head Office, a certain amount of correspondence and tabulation is likely to arise and I would propose a similar allowance to the clerk concerned.

The alternative is to employ one whole time clerk on Rs. 30. I consider this more desirable as conducing to greater accuracy and continuity.

Rough estimate of cost, if carried out by the existing District Registrar's staff:—

		Rs.	a.	p.
I	Medical men, each Rs. 50 p. m. for five months—10 men...	2,500	0	0
II	Three Nurses, each Rs. 75 for 5 months	1,125	0	0
III	Clerks 10, District Registrars' Clerks, each on Rs. 5 p. m. for 5 months	250	0	0
	I Head Office Clerk on same	25	0	0
	or			
	One whole time Clerk on Rs. 30 p. m. for 5 months ...	150	0	0
IV	Weighing and height measuring machines, two, each @ Rs. 130...	260	0	0
	Labour for moving scales from one School to another at, say, Rs. 10 per scale p. m.	50	0	0
V	Eye-testing Cards. If District Registrars employed, 10 of Marathi, Urdu and English @ ¾ for the three.. ...	32	8	0
VI	Stationery, Printing, etc.'... ... ... , ...	325	0	0
	Total Rs.	4,567	8	0
	Or Rs.	4,442	8	0
VII	Contingencies, travelling, &c.	450	0	0
		4,892	8	0
	Say Rs. ...	5,000	0	0

Rough estimate of cost if work is carried out by 3 whole time Medical Men :—

		Rs.	a.	p.
I	3 Medical Men @ Rs. 175 p.m. for 5 months	2,625	0	0
II	3 Nurses @ Rs. 75 p.m. for 5 months.	1,125	0	0
III	One whole time Clerk @ Rs. 30 p.m.	150	0	0
IV	Weighing machines, two, each @ Rs. 130	260	0	0
	Labour for moving the same @ Rs. 10 per scale	50	0	0
V	Eye-testing Cards, 3 of each, English, Marathi and Urdu @ ¾ the Set	9	12	0
VI	Stationery, Ink, Pens, Printing, etc.	325	0	0
		4,544	12	0
VII	Contingencies, travelling allowances, &c.	450	0	0
		4,994	12	0
	Say Rs....	5,000	0	0

From the point of view of expenditure, it will be seen that there is practically no difference in expense whether the work is carried out by the existing staff of the District Offices or by special whole time men.

If possible, a small room or a separate verandah be placed at the disposal of the Medical Man during the actual period of examination—in order that the work of the School should suffer a minimum of interference.

Otherwise the whole work of the class may be interrupted during the period of examination, due to a lack of intelligent co-operation between the staff and the Medical Man, which should soon disappear. It is quite unnecessary to suspend the lesson. All that is required is that the master permits 1 or 2 children to leave the class in turn, to be examined and return immediately to work.

To establish such an orderly system will be one of the nurse's most important duties, as it is desirable not to interfere with the teaching carried on in the least practicable degree. The use of a separate room would of course largely conduce to this object.

The suggestions made in this report have been approved by the Corporation and the Health Officer has been requested (Corporation Resolution, No. 5189 of 1st December 1913) to undertake the examination of all children attending Municipal Schools with the staff to be employed by the Schools Committee for carrying out the work.

Refuse Motor Service.

The first motor was put to service on 20th October 1909. Since then the number has been increased and there is now a fleet of 14, of which 10 are Steam and 4 Petrol: the latter being the latest addition.

There are two loading depôts, one at Palton Road and the other at Null Bazar. Both are far too small for the purpose but are the only places available. At both places the loading is performed by hand, which is both difficult and more expensive than mechanical power; but the latter cannot be installed as in the case of the Palton Road yard, a large portion of it is to be acquired by the G. I. P. Railway in connection with the enlargement of the Bori Bunder yard; and in the case of Null Bazar the arrangement is a temporary one, as the refuse which is now being taken there will, when an incinerator is provided at Bapty Road, be taken there by the carts and the motors will then be free to be employed elsewhere.

The difficulty in obtaining labour is great, the work being obnoxious and harder than Section work; it is only when Section work is not available that labourers can be secured for motor loading.

The work done by the motors has increased with their number and on an average 35 trips per day are now made to 12 in the beginning.

The first three steam motors have nearly completed 5 years' work and in view of the fact that they are on the run for 16 hours a day, they may be considered to have done very well.

When the motors first came into use, it was thought a reserve of 30% would suffice, but, from experience and considering that motors are getting older, it is found that a reserve of 50% is not too much.

Proposed Lethal Chamber at Tardeo Flats.

It will be observed on reference to Corporation Resolution No. 4333, dated 24th October 1912, that that body while adopting the Committee's Report, dated 20th August 1912, regarding measures for diminishing the number of dangerous, diseased and stray dogs in the City, had agreed to the suggestion made by Government that the Corporation should establish lethal chambers and employ professional dog-catchers on the lines of the method of destroying stray dogs adopted in the City of Madras, Government consenting to pay half the recurring as well as non-recurring charges. Accordingly a site for putting up a lethal chamber and servants' quarters, &c., was selected at the Sewree Lazaretto, but being subsequently found to be objectionable was abandoned. A new site was then selected near the Mahaluxmi Loading Siding Depôt at Tardeo Flats. The plans and estimates (the latter amounting to Rs. 2,145), having been lately approved and sanctioned by the Commissioner. Further plans and estimates are under preparation by the Executive Engineer.

Installation of Refuse Destructor.

The work of installation of a Destructor for the incineration of refuse, on the site of the Municipal Milch Cattle Stable on Bapty Road which was sanctioned by the Corporation under their Resolution No. 6649 of 13th February 1913, has not yet been taken in hand.

Milch Cattle Stable Byelaws.

Amendments and additions to Bye-laws relating to Milch Cattle Stables framed by the Corporation in exercise of the powers conferred by Section 461 (*f*), (*g*) and (*h*) of the City of Bombay Municipal Act, 1888, were confirmed by Government at the beginning of the current year and published in the *Government Gazette* of 29th January 1914. These aim at securing better control and supervision of premises used for keeping milch cattle for sale or hire or for sale of produce; better ventilation and cleanliness of the stables and more surrounding open space and space for the animals; and confer additional powers governing the inspection of milch cattle, requiring notice to be given whenever any milch cattle is affected with any contagious disease and prescribing precautions to be taken for protecting milch cattle and milk against infection and contamination.

Sale of Milk.

In the recent amendments to the Municipal Act (Bombay Act VI of 1913), a new Section 412A) has been added providing for the licensing of milk sellers and of places where milk is sold with a view to bringing them under sanitary control. Necessary regulations for the issue of license have been framed and brought into effect from 1st April 1914.

Extension of the Provisions of the Bombay Prevention of Adulteration Act, 1899, to Milk.

Under Notification No. 1321, issued by Government (General Department) on the 27th February 1912, the provisions of the Bombay Prevention of Adulteration Act, 1899, were extended to milk from 1st April 1912. The Deputy Health Officers have been instructed to take necessary action in regard to milk under the provisions of this Act. I have pointed out certain defects in the working of the Act and suggested modifications for their removal; that it is necessary to provide for the analysis of the samples of milk being made by the Municipal Analyst instead of by the Chemical Analyser to Government as at present and also to make some provision to enable the Municipal Officers to purchase samples of milk by the hands of an agent, so that the vendors may not know for what purpose they are being bought. These suggestions have been forwarded to Government by the Corporation.

Unwholesome food seized and destroyed.

During the year, action under Sections 415 and 416 of the Municipal Act for the seizure and destruction of unwholesome food was continued, as usual, by the staff of this Department, and a list of such articles seized and destroyed in several Wards is subjoined :—

B Ward:—1,200 Mangoes, 75 various other fruits and one small basket of Fish.

C Ward:—3,561 Mangoes, 480 Pears, 366 Plantains, 81 Pine apples and one basket of Jambuls.

D Ward:—147 Mangoes and 2 Plantains.

E Ward:—1,006 Mangoes, 480 Plantains, 228 Pears, 117 Apples, 61 Oranges, 29 Water-melons, 22 lbs. of Potatoes, 18 lbs. of Grapes, 28 lbs. of Onions, 20 lbs. of Fish and 18 lbs. of Grapes.

F Ward:—714 Mangoes, 475 Plantains, 11 Water-melons, 6 Oranges, 13 Apples, 9 Pears, 1½ lbs. of Grapes, 90 lbs. of fish and 70 lbs. of Sweet-meat.

G Ward:—3,639 Mangoes, 245 Plantains, 153 Water-melons, 212 lbs. of Vegetables of sorts, 48 lbs. of Sweetmeat, 280 lbs. of Potatoes, 216 lbs. of Onions, 218 lbs. of Fish, 93 Oranges, 245 lbs. of Pickles of sorts, 55 lbs. of contraband meat, 4 lbs. of Bhajas and 14 lbs. of Curds.

Infectious Diseases Hospital for Europeans and Anglo-Indians.

Plans and estimates of the proposed Hospital for the treatment of Europeans and Anglo-Indians suffering from Infectious Diseases are under preparation.

Anti-Tuberculosis Work.

The work of the Anti-Tuberculosis League, mentioned in our last Annual Report, continued to advance.

The Central Dispensary of the King George V Anti-Tuberculosis League founded last year has been working in intimate relation with the Health Department. All cases of Tuberculosis coming to the Dispensary for treatment are reported to the Executive Health Officer and District Registrars, who are advised when special disinfection of a house is required. The District Registrars notify to the Dispensary cases reported to them, as also deaths from Tuberculosis, so that the homes of such persons come under the supervision of the League. The Dispensary also brings to the notice of the Health Officer insanitary conditions detected any where in the City.

Patients suffering from Tuberculosis, who attend the Municipal Charitable Dispensaries, are sent by the Registrars to the Dispensary of the League.

The suggestion of the Anti-Tuberculosis League to utilise the temporary Wards of the Maratha Hospital for Tuberculosis patients is still under consideration; when forwarding the proposal I reported (under my No. 19857 of 13th September 1913):—

"The suggestion from the Anti-T berculosis League is a very valuable one for the City, and if accepted, will be the means of providing at a small cost accommodation for 20 Beds and a Dispensary for Tuberculosis patients. The cost will be about Rs. 10,000 per annum and can be met from the grant under Infectious Diseases—Special measures.

"This is a small beginning, and the accommodation may be increased as the demand arises. Tuberculosis is a disease which improves by treatment and the isolation of acute cases in hospital is a means of preventing the spread of the disease—which is one of the duties of the Municipality. As we have no other suitable hospital for this purpose, I would advise the Municipal Commissioner to agree to the proposal pending further developments."

Work done by the Department: Appreciation.

The work done under Dr. Choksy at the Infectious Diseases Hospital and the Maratha Hospital for Plague was satisfactory, no serious outbreak of any infectious disease occurring during the year.

Dr. Joshi, the Municipal Analyst, shows in his Report how the work is increasing in quantity, and the satisfactory way it was dealt with and the research work carried on.

The Special Malaria Branch under Dr. Shroff continued to show good results.

The work of the Cleansing Department was strengthened by the supervision of the Superintendent of Conservancy; but there is still much room for improvement. The Test Audit of the Chief Accountant showed how impossible it is to constantly supervise the labour staff with the present inadequate number of Inspectors.

The Corporation have not sanctioned the appointment of a Superintendent of Conservancy but have asked the Municipal Commissioner to report on the increase necessary in the staff of Inspectors. I trust that this matter will be fully considered and treated generously, as without constant and systematic supervision it is impossible to get the work done properly. The duties of the Executive Health Officer and his Assistants are so multifarious, both indoor and outdoor and this has been pointed out so frequently, that the time taken up by the supervision of the conservancy, the constant inquiries into strikes, petitions, petty complaints interferes very seriously with the time which could be more profitably spent in the control of disease and the higher side of Public Health Administration. The question should be settled once for all and a large view taken of the work and its responsibilities and capable Officers placed in charge of the conservancy system.

The Report of Dr. Nerurkar, the Superintendent of Vaccination, will show the amount of work satisfactorily carried out by that branch.

I cannot speak too highly of the able work done by Mr. N. S. Kowshik, who succeeded Rao Saheb Pai as Chief Clerk in August last; and Mr. Nagindas Jamnadas and the rest of the Office Staff. The office work is enormous and increases yearly and is carried out with efficiency that I much appreciate.

The Deputy Health Officers and the District Registrars carried out their duties with their usual zeal; and if any improvement in the health conditions of the City can be noted it is due to their willing co-operation. Much, however, remains for them to do before we can say that the standard to which they should aim at has been reached.

PUBLIC HEALTH DEPARTMENT,
BOMBAY, 17*th April* 1914.

J. A. TURNER, M.D., D.P.H.,
Executive Health Officer.

Annual Report of the Arthur Road Hospital for the year 1913.

I.—Administration.

1. There were no changes in the staff during the year.

II.—General Statistics.

2. The total number of admissions was 791, as compared with 1,540 in 1912, and 965 in 1911. The maximum number of patients present on any particular day was 82, as compared with 176 and 138 in 1912 and 1911, respectively.

3. Not a single Hajee suffering from Small-pox was admitted, and only 16 Hajees were admitted, 13 of whom were suffering from Chicken-pox, 2 from Yaws, and 1 from Dysentery. There was no death among them.

4. The principal admissions were from Small-pox, Chicken-pox, Measles and Cholera. Admissions from Small-pox numbered 203, as compared with 658 during 1912. Chicken-pox and Measles were responsible, 140 and 23 respectively. Cholera admissions numbered 52 as compared with 475 during the previous year.

5. The following Table shows the details of admissions, deaths, recoveries and case-mortality rate per cent.:—

Diseases.	Admissions.	Deaths.	Recoveries.	Case-mortality rate per cent.
Small-pox	203	50	153	24·65
Chicken-pox	140	.....	140	.....
Measles	23	1	22	4·34
Cholera	52	17	35	32·69
Whooping Cough	2	.....	2	.....
Erysipelas	22	7	15	31·81
Relapsing Fever	1	1	.....	100·0
Mumps	20	1	19	5·00
Plague	7	1	6*	.....
Observation Cases	321	68	253	21·18

* Transferred to Maratha Hospital.

III.—Small-pox.

6. Small-pox prevailed from February to June. It was very low during the six following months. That the epidemic was not as severe as the four preceding is shown by the low case-mortality rate of 24·65 per cent.

The Vaccinal Condition of Small-pox Patients.

7. The following statement compares the vaccinal condition of patients and the rate of their case-mortality during the year as contrasted with the four previous years :—

Year.	Vaccinated patients.		Unvaccinated patients.	
	Number.	Case-mortality rate per cent.	Number.	Case-mortality rate per cent.
1909	226	14·1	187	42·2
1910	399	18·0	286	41·9
1911	202	10·8	138	39·8
1912	426	16·9	232	40·51
1913	132	18·18	71	36·62

The foregoing figures indicate that the rate of case-mortality among the vaccinated was 18·18, as compared with 36·62 among those unvaccinated.

8. The case-mortality rate among vaccinated Hindus was 15·62, as compared with 32·43 per cent. among those unvaccinated. Mahomedan vaccinated patients were comparatively few and they had the low mortality rate of 15·4, as compared with 30 per cent. among those not so protected, and lastly among Native Christians, mostly Goans, those protected had a mortality rate of 30·43, as compared with 45·83 per cent. in the unvaccinated.

The Vaccinal Condition of Children under 10 years.

9. The information required by Government Resolution, No. 3231 of 21st May 1912, General Department, as to the vaccinal condition of children (under 10 years), who were admitted for and died of Small-pox during the year is as follows :—

Period.	Vaccinated.				Unvaccinated.			
	Admitted.	Died.	Recovered.	Case-mortality rate.	Admitted.	Died.	Recovered.	Case-mortality rate.
1 to 6 Months	1	1	...	100·0	2	1	1	50·0
7 to 12 „	1	.....	1	.....	1	...	1	.....
1 to 5 Years	17	3	14	17·64	18	5	13	27·7
6 to 10 „	12	3	9	25·0	3	1	2	33·33
Total ...	31	7	24	22·58	24	7	17	29·16

IV—Cholera.

10. Cholera admissions numbered 52; 17 died and 35 recovered, showing a mortality rate of 32·69 per cent. The treatment adopted was the same as described in the last report.

N. H. CHOKSY, M.D., F.C.P.S.,
Special Assistant Health Officer,
In-charge Arthur Road Hospital.

Bombay, Arthur Road Hospital,
12*th February* 1914.

Report of the Maratha Plague Hospital for the year 1913.

I.—Administration.

1. There was no change in the staff during the year.

II.—General Statistics.

2. The total number of admissions was 437, as compared with 311 in 1912 and 604 in 1911.

3. The admissions from Plague numbered 392, as contrasted with 238 in 1912 and 565 in 1911.

4. The number of admissions for observation was 45, as against 73 in the previous year. There were 28 recoveries and 17 deaths among them.

5. The rate of case-mortality among plague patients was 74·74, as compared with 73·10 and 74·8 per cent. during 1912 and 1911 respectively.

6. The number of European and Anglo-Indian patients treated for Plague was 8, of whom 2 died and 6 recovered.

7. The epidemic was not characterised by any special features as compared with the previous ones. A certain number of cases of Cerebro-spinal Meningitis were, however, admitted into the Hospital as suspicious plague. The mortality was very heavy inasmuch as they were admitted in an advanced stage with a failing heart.

8. The rate of hospital mortality from Plague has varied from 70 % to 81 %. The lower range was observed during the period when the Plague Research Commission was making observations with serum treatment, as also immediately prior to that, when it was being applied at the cost of the Municipality. Although the incidence of the disease has considerably decreased during the last seven years, the virulence has not at all abated, as the percentage of deaths to attacks in the City has fluctuated between 86·30 to 88·96. During the same period the hospital mortality rate has varied between 70 to 74 per cent., rising once in 1910 to 77 per cent., and in 1909 to 80 per cent.

N. H. CHOKSY, M.D., F.C.P.S.,
Special Assistant Health Officer,
In-charge Maratha Plague Hospital.

Report on Malaria Operations for the year 1913.

I have the honour to submit herewith my Second Annual Report on Anti-malaria work done in the City for the year ending 31st December 1913.

2. The routine of the work was the same as was done during the preceding year.

3. The Gowalia Tank and Dhobi Talao Tank have been completely filled in.

4. The Mustan, Cowasji Patel and the Nawab's Tank in Mazagon are being filled in.

5. The Nakhoda Tank. Correspondence is going on. No larvæ have been found here.

6. The 4 tanks mentioned in para. 35 of the last year's report, plans have been approved for Gamdevi and Bhagirthi Tanks.

7. The Bhuleshwar Tank still remains a nuisance and danger to health; as nothing was done by the owner, the work was recommended to be done through the agency of the Executive Engineer, and it was further suggested that it should be filled in.

8. The following big tanks were found breeding Larvæ and action was taken as shown herein :—

1.	Big quarry hole in Sankli Street belonging to Messrs. Moolji Jaitha & Co.	Being filled in.
2.	Big pit on Government ground at Arthur Road opposite the Police Station.	Being filled in.
3.	Tank attached to Vithoba Temple in Vithalwady.	Under correspondence.
4.	Tank attached to Shankershet's Temple in Tardeo Road.	Decided to be filled in at Municipal expense.
5.	Tank attached to the Mahaluxmi Temple compound.	Under correspondence.
6.	Two tanks attached to 2 temples near Thakurdwar Road.	Under correspondence.
7.	Tank in Lady Northcote Hindu Orphanage.	Decided to be filled in at Municipal expense.
8.	Tank in Mr. Muckba's premises, Parel Road, Byculla.	Under action.
9.	Tank in Mr. Powvala's compound, Khetwady 10th Lane.	The owner agrees to the tank being covered.
10.	Tank in Rao Saheb J. Shankershet compound on Girgaum Road. (Old Swimming Bath.)	Under correspondence.
11.	Tank attached to Piroo Mahomed Oil Mill, Byculla.	Filled in by Government.
12.	Tank attached to a Temple in Hansraj Lane, Byculla.	Under correspondence.
13.	Tank at the junction of Warden and Nepean Sea Roads belonging to Mr. Chabildas Lalubhai.	Filled in.
14.	Tank belonging to Mr. Essa Alli, Grant Road.	Under correspondence.
15.	Tank belonging to Mr. N. Motabhoy, Byculla.	Under correspondence.
16.	Tank attached to a Cotton Cleaning Factory, Bellasis Road.	Under correspondence.
17.	Tank in Old Government House, Parel. ...	Estimates prepared by Government for filling in.
18.	Mr. Adenwalla's Tank, Tardeo	Being filled in.
19.	Surya Kund, Mazagon	Under correspondence.

9. Larvæ were found for the first time in October last in the Mint Tank and it is now under fish trial (Piku-fish) and the result is being watched.

10. The following Table shows the work carried out by the Executive Engineer in connection with private wells, out of the Government Grant:—

Ward.	House No. and locality.	Area of the well.	Nature of cover provided.	Cost.
				Rs. a. p.
D	1 Gowalia Tank Road ...	.....	Filled up.	89 9 4
D	11, 2nd Parsiwada ...	4'-6" × 3'-8" ...	Covered with wire gauze.	26 12 1
D	34, Ardeshir Dady St. ...	4'-9" in dia. ...	Covered with wire gauze.	33 3 6
D	35—43, Khetwadi 7th Lane.	5'-6" „ ...	Covered with wire gauze.	39 11 5
A	89, Esplanade Road ...	6'-4" „ ...	Filled up.	15 4 7
D	48, Ardeshir Dady St. ...	4'-1" × 4' in dia.	Covered with wire gauze.	24 0 1
C	10, 2nd Sonapur Lane ...	.....	Covered with wire gauze.	32 11 8

11. The following further orders were passed by Government with reference to the Government Grant :—

"No. 26818, 11th December 1913.—With reference to paragraph 3 of Government Resolution, No. 1474 of the 22nd February last, I have the honour to forward herewith two statements, marked A–2710 and B–2710, showing, respectively, (1) wells which have been filled in, together with the cost incurred, and (2) wells in which work is in progress, together with an estimate of the expenditure to be incurred. It will be seen that the amount so far expended or to be expended out of the Government contribution is Rs. 2,701 and the Municipality will therefore not require any additional funds during this year.

"2. It has been necessary during the initial stages of the campaign to insist as much as possible on the financial responsibility of the owners of wells, as it was feared that any generosity would lead to misconceptions. Now, however, it is generally recognized that the Municipality has power to enforce compliance with requisitions to fill or cover in wells, and it will be possible to give assistance on a larger scale. At first orders were issued for the covering in of wells with wire-gauze covers, but experience has shown that this method is unsatisfactory and now the department is insisting on concrete covers.

"3. For the next year I would ask Government to make a provision of Rs. 20,000 on this account.

"4. Hitherto the Government grant has been ultilized only in the case of wells. Experience shows that there exist a fair number of small tanks which form even more prolific breeding grounds for larvæ than wells and must be filled in. Where such tanks are privately owned or owned by charitable institutions, it often occurs that the filling in is a work beyond the financial capacity of the owner, and I am of opinion that in such cases it is very desirable to contribute either all or a portion of the cost from the allotment made by Government. I would ask the sanction of Government to this course being adopted on the understanding that in no one case shall the contribution exceed Rs. 1,000 and that no grant will be made for filling in a tank except in cases where the Commissioner has personally satisfied himself as to its propriety."

"No. 170. Copy of extract paragraph 1 of the Municipal Commissioner's letter and accompaniments should be forwarded to the Accountant-General for information, with reference to Government Resolution, No. 1474, dated the 22nd February 1913.

2. "With reference to paragraph 3 of his letter, the Municipal Commissioner should be informed that the requisite provision has been made in the ensuing year's budget.

3. "The proposal made in paragraph 4 of the Municipal Commissioner's letter is approved, subject to the condition mentioned in the concluding sentence thereof."

12. The following letter was addressed to owners of wells where work was done out of Government grant :—

"I have the honour to inform you that the well at your premises No. * * * has now been covered at Municipal expense. You will please note that it is now your duty to maintain it in a proper mosquito-proof condition and to keep the trapdoor under lock and key. If at any time hereafter the cover or its trapdoor is broken and in a non-mosquito-proof condition or trapdoor open and without lock and key, immediate legal steps will be taken to close the well entirely without a trapdoor, at your expense. The trapdoor is only to be opened for drawing out water for religious purposes and then closed immediately."

13. The following Municipal wells were filled in or hermetically covered :—

Road-side well in Hospital Lane	Hermetically covered (with wood).
Well in Cruickshank Road between the Police Courts and *Times of India* Office.	Hermetically covered (with concrete).
Well in Cruickshank Road, west of Police Courts ...	Filled in.
Road-side well in Bhoiwar Lane	Hermetically covered (with wood).
Road-side well in Nanabhai Lane	Do.
9, 1st Fofalwadi	Do.
37, 3rd Marine Street	Do.
Well at Marbowdi, Girgaum	Filled in.

14. Municipal help from the Government grant has been promised to owners of 75 wells.

15. Spot-maps of each Section have been kept up in this Office. I attach herewith copies of Fort North and Dhobi Talao Sections shewing wells dealt with.

16. One well in Dhanji Street was covered over with full wire gauze at Municipal expense as an experimental measure, in accordance with the design approved of by the Standing Committee. In about two weeks' time the gauze gave way and larvæ were again found. The owner was thereupon served with a notice to hermetically cover the well with concrete and this work was done after legal action. It was therefore decided to enforce concrete covers with wire-gauze trapdoors under lock and key in all cases in future.

17. As regards wire-gauze, "*Christies' Oxydized Phosphor bronze mosquito gauze,*" thick and of 16 meshes to a running inch, has been strongly recommended, as it is "strongest, most durable and outlasts many renewals of any other quality." A local firm of plumbers has obtained a supply and this is now recommended in all cases.

LEGAL ASPECT OF MOSQUITO PREVENTION.

18. Section 381 of the Act was amended during this year and another Section 381A was added. This came into force in November last. The following are its provisions :—

Filling in of pools, etc., which are a nuisance.

(a) "381. (1) If in the opinion of the Commissioner (*a*) any pool, ditch, tank, well, pond, quarry-hole, drain, water-course, or any collection of water ; or

(*b*) any cistern or other receptacle for water, whether within or outside a building ; or

(*c*) any land on which water accumulates and which is situate within a distance of one hundred yards from any building used as a dwelling house,

is or is likely to become a breeding place of mosquitoes or in any other respect a nuisance, the Commissioner may, by notice in writing, require the owner thereof to fill up, cover over or drain off the same in such manner and with such materials as the Commissioner shall prescribe, or to take such order with the same for removing or abating the nuisance as the Commissioner shall prescribe.

(2) "If an owner, on whom a requisition is made under sub-section (1) to fill up, cover over or drain off a well, delivers to the Commissioner, within the time prescribed for compliance therewith, written objections to such requisition, the Commissioner shall report such objections to the Standing Committee and shall make further inquiry into the case, and he shall not institute any prosecution under Section 517 for failure to comply with such

requisition except with the approval of the Standing Committee, but the Commissioner may, nevertheless, if he deems the execution of the work called for by such requisition to be of urgent importance, proceed in accordance with section 489 and, pending the Standing Committee's disposal of the question whether the said well shall be permanently filled up, covered over or otherwise dealt with, may cause such well to be securely covered over, so as to prevent the ingress of mosquitoes, and in every such case the Commissioner shall determine, with the approval of the Standing Committee, whether the expenses of any work already done as aforesaid shall be paid by such owner, or by the Commissioner out of the Municipal Funds or shall be shared, and, if so, in what proportions."

(*b*) 381A. (1) No new well, tank, pond, cistern or fountain shall be dug or constructed without the previous permission in writing of the Commissioner. Permission for new well, etc.

(2) If any such work is begun or completed without such permission, the Commissioner may either—

(*a*) by written notice require the owner or other person, who has done such work to fill up or demolish such work in such manner as the Commissioner shall prescribe, or

(*b*) grant written permission to retain such work, but such permission shall not exempt such owner from proceedings for contravening the provisions of sub-section (1)."

19. After the Act was amended, the attention of the public was drawn to the principal amendments by a notification in the newspapers and handbills in English, Guzerathi and Marathi were printed and distributed in the city through the Sub-Inspectors.

20. The Corporation under their Resolution No. 2020 of 1st July 1912 suggested in the proposed amendment the following clause:—

" Provided however that, if the Commissioner shall be satisfied as the result of such further enquiry, that the water of such well is used for religious purposes, he shall by license permit such owner to continue the use of such well for such purposes, but subject to such restrictions and conditions as may be prescribed by such license, and subject also to the power of the Commissioner to suspend or revoke such license, if any of its restrictions or conditions are infringed or evaded."

The Municipal Solicitors who were consulted in the matter replied as follows:—

" We have to state that the new Section 381 contains no provision for the licensing of wells, &c., such as suggested in the report of the Sub-Committee of the Corporation on Malaria to which you refer, and we do not see how it will be possible to introduce such a system of licensing as you suggest."

21. Powers under Section 381 and 381A, which are now delegable under Section 68 as amended, have been delegated by the Municipal Commissioner to the undersigned and the Executive Health Officer, but all action with reference to wells is taken with the approval and sanction of the Municipal Commissioner, who orders notices to be issued after personal inquiry into the necessary requirements of each case giving due weight to all religious objections.

22. Under these amendments action can now be taken for cisterns and all breeding places.

23. In case of cisterns notices were served to provide tightfitting mosquito-proof covers over them, protecting the warning pipes (overflow pipe) with wire gauze and providing lock and key arrangement to those on terraces where they are likely to be handled by the servants, as in many instances I have found the lids on such cisterns opened by the servants during the non-supply hours, the lids kept on one side and the cisterns kept open. Lock and key arrangement was not enforced in those cases where the cisterns were not easily accessible.

24. Religious scruples were put forth in almost every case with a view to get the concession of a trapdoor but such concession was granted only after careful personal enquiries.

25. In spite of repeated warnings given both verbally and in writing the trapdoors continued to be kept open and during the year I had to send warning post-cards to 473 parties.

26. Sentimental objections were very strongly urged in many cases. In one case in Cowasji Patel Street, Fort, where the party was asked to hermetically cover his well with concrete, the owner implored us to fix therein a small wiregauze in order to enable the "spirit" in the well to come out. This request was complied with.

27. The well in Alice Building, Fort, referred to in para. 57A of last year's report, and which was under fish trial, after a long correspondence, owing to fish proving ineffective was recommended to be covered over with full wire gauze at the special request of the owner, who beseeched us not to wound the sentimental objections of numerous persons who go there to worship the well and the "spirit" therein.

28. The appeal to the High Court in the Mahaluxmi Temple compound well case (*vide* para. 58 of last year's report) was decided in favour of the Municipality, and the Trustees were convicted and fined Rs. 20. The following judgment was given in the case:—

(*Coram* :—*Scott, C. J., and Shah, J.*)

"*Per Curiam*—Section 381 of the Bombay Municipal Act provides that if, in the opinion of the Commissioner, any well likely to become a nuisance, the Commissioner may, with the approval of the Standing Committee, by notice in writing, require the owner to fill up the same or take such other order as the Commissioner shall deem necessary. The well in question here is one which the Commissioner is of opinion is likely to become a nuisance; and he has, with the approval of the Standing Committee, by notice in writing, required the Trustees of the temple which owns the well, who were Trustees at the time of the notice to fill it up. Section 482 provides that the written document signed by the Commissioner purporting to set forth his opinion shall be sufficient evidence of such opinion. It is not disputed that the Commissioner has signed the notices. Therefore all the conditions in Section 381 have been complied with. We are not concerned with the question whether the Commissioner has come to a right conclusion, but we adopt the presumption prescribed in Section 114 of the Evidence Act that official acts have been regularly performed. There is no reason to doubt the *bona-fides* of the Commissioner. Therefore, an offence under Section 471 of the Municipal Act has been committed by the Trustees failing to comply with a requisition under Section 381 lawfully made upon them. The learned Magistrate, therefore, was wrong in acquitting the accused. We set aside his order of acquittal and impose upon the accused taken collectively a fine of Rs. 20, in respect of the well in accordance with the provisions of Section 471, *i.e.*, Rs. 6-10-8 is the fine imposed on each of the accused.

29. Another appeal was lodged about a well in premises No. 9A, Walkeshwar Road. The High Court referred the case back to the Magistrate to take further evidence; but the case was subsequently withdrawn for taking fresh action under the amended Section of the Act. In the meantime the owner has, of his own accord, covered the well with a mosquito-proof cover.

30. Stegomyia Survey: the following report was submitted to the Municipal Commissioner:—

"We have already anticipated this important question, and for this very reason we had decided to take action against all varieties of mosquitoes, including stegomyia.

"It is satisfactory to note that Major James does not consider the danger of the importation of Yellow Fever through the Panama Canal to India as serious as was anticipated.

"Major James appears to suggest that a constant water-supply will reduce the danger to a minimum in large cities in India by abolishing all cisterns.

"This is a very easy and comforting conclusion, and if worked up to will be of great value to those cities whose water-supply is not constant.

"I have always advocated the extermination of all varieties of mosquitoes, including stegomyia, and our efforts have been directed against all places where mosquitoes breed and have not confined our attention to anopheles variety alone.

"During the year ending 31st March last, we have examined wells as under for Culex and Stegomyia, and action was taken against the parties in all cases :—

A. 78. B. 50. C. 267. D. 93. E. 46.

"The chief breeding places for Stegomyia are water barrels kept in bullock and horse stables, (2) in fuel wood depôts and timber godowns, (3) storm-water catchpits, (4) wells, (5) cisterns, (6) garden tanks, (7) road-watering cisterns, (8) cisterns over public latrines and urinals and (9) odd receptacles and ornamental flower vases in gardens, houses, &c.

"Concerning the first, the License Superintendent under this office No. 2289 of 27th May 1912 has already been written to in this matter and the owners of the stables have also been separately addressed by this office, but nothing effective has been done.

"A clause in the license should be inserted that water should be stored in zinc barrels with tight fitted mosquito-proof covers under lock and key, and a tap at the bottom to draw off water. Any infringement of this condition should be rigorously dealt with.

"About the second reference is requested to para. 97 in the last annual report on Malaria.

"As regards 3, our procedure is that after the monsoon we write to the Drainage Department to hermetically cover all such entrances. Reference is requested to this office No. 1652 of 21st April 1913.

"We do take action in all cases of wells.

"All cisterns were inspected and mosquito-proof covers insisted on. As soon as the Act is amended, such cases will be rigorously dealt with.

"Concerning road watering cisterns and cisterns over public latrines and urinals reference is requested to the correspondence ending with this office No. 17224 of 19th November 1912 returned through the Chief Accountant. Up to now nothing has been done in this direction.

"Gutters beneath roofs are also likely breeding places in the monsoon, but it is impossible to deal with them except by inserting new clauses in Building regulations.

"There is nothing new in this resolution calling for further action by this Department. Our crusade is not only anti-malarial, but anti-mosquito as well.

"In addition to the actual work done by the Malaria Branch we are trying by giving Illustrated Lantern Lectures to all classes of the people to instruct the public in the danger of mosquitoes of all kinds and by weekly publications in the press keep the public informed of places where mosquitoes are found breeding."

31. The work of covering and properly protecting the cisterns over *public latrines and urinals* in the City was completed during the year and the lids were kept under lock and key.

32. The Executive Engineer, Municipality, the Secretary, City of Bombay Improvement Trust, and the Executive Engineer, Presidency, were requested not to allow broken glass bottles to be fixed over boundary walls as those small receptacles act as breeding places for larvæ of Culex and Stegomyia mosquitoes during the rainy season, the Municipal Commissioner deciding to have such a regulation being introduced into Municipal Building regulations.

33. The procedure as regards wells, tanks, &c., in F & G Wards was revised, and the following orders were issued in the matter :—

(*a*) "Disused wells, which are not used at all and which act as breeding places for Anopheles larvæ, should be ordered to be filled in and action should be pressed.

(*b*) "As regards wells which were used for domestic purposes, action should be pressed against those wells which are very close to human habitations.

(*c*) "Wells in use and far off from residences may be tolerated for the present, provided the owners take sufficient precaution for mitigating nuisance from Anopheles larvæ, by putting in fish and keeping it free from vegetable matter."

34. Four intelligent coolies, who knew how to distinguish larvæ, were engaged in November last in Malabar and Cumballa Hills on Rs. 13 each with instructions to inspect each and every bungalow every 7 days and to destroy all temporary breeding places found in compounds after showing them either to the *mali* or some responsible person in the house.

35. The Parsi Zoroastrian Conference held in Bombay in October last passed the following resolution regarding wells :— Education.

"The fifth resolution which was in the hands of Dr. Nanabhai Naoroji Katrak urged the community not to object to the filling in of malarial and insanitary wells on religious ground and to use quinine during Malaria epidemics.

"Mr. Beheramgor Tehemuras Ankleśaria seconded the resolution which was unanimously adopted."

36. During the year 7 lectures on Malaria with the help of magic lantern slides were delivered at the following places:—

In Byramji Jeejeebhai Charitable Institution.
In Y. M. C. A., Wodehouse Road.
In Indo-British Institution, Hornby Road.
In Anjuman-e-Islam High School.
In Mandvi A.-V. School.
In Municipal School above Bhuleshwar Market.
In Sanitary Class to the students.

37. 86 new magic lantern slides with an album of photos on Malaria were purchased from the Sanitary Commissioner, Bengal, at a total cost of Rs. 122-13-3.

38. The weekly reports of places where larvæ were found were published every week in the following papers :—

"Times of India"
"Advocate of India"
"Bombay Gazette"
"Chronicle"
"Bombay Samachar"
"Jam-e-Jamshed"
"Parsee"
"Sanj Vartman"

and our thanks are due to the Proprietors of these Papers for inserting this information free.

39. Big placards on Mosquitoes and Malaria in English and in Guzerathi were printed and posted at conspicuous places in the City. A few mounted on cardboards were hung up in the offices of the District Registrars, Deputy Health Officers' Offices and Ward stables. These posters contained the following information, with a big diagram of Neocellia Stephensi on the top:—

What to do to prevent Malaria.

1. Beware of mosquitoes.
2. To harbour mosquitoes is to court Malaria.
3. Malaria is propagated from man to man by mosquitoes.

Prevention :—

(*a*) Remove all water-holding tins, bottles and similar odds and ends—no matter how small or trivial.

(*b*) Properly cover all cisterns, wells, tanks, etc., so as to prevent the access of mosquitoes to water.

(*c*) Sprinkle pesterine or kerosine oil once a week on every collection of waste water.

(*d*) Take quinine regularly.

(*e*) Use mosquito nets."

40. Many applications were subsequently received from the Health Officers of different Municipalities in Madras, Calcutta and other parts of India, for specimen copies of these placards and such requests were complied with.

41. Mounted placards have also been fixed on the Railway stations of both the B. B. & C. I. and G. I. P. Railway Companies, Libraries and other public institutions.

42. As Khajura fish was not found very successful in destroying mosquito larvæ, tenders were invited for Piku fish, which was very highly spoken of by several experts at the Sanitary Conference in Madras in 1913. The old contractor agreed to supply this fish at Re. 1 per dozen.

43. The following description of Piku fish is copied from Captain Sewell's book on Indian fish :—

"*Haplochilus lineolatus.*"

"In Bombay this fish is known locally as 'Piku.'

"It is the largest member of the genus, attaining four inches in length. It can readily be distinguished by the presence of an elongated ray in the ventral fin and by its colour, which is greenish above with a purple tinge on the abdomen. Eight to ten vertical bands pass across the sides and each scale has a golden green spot in the centre."

"They habitually remain floating at or near the surface of the water and the flattened head and wide mouth seem to be particularly adapted to the purpose of capturing Anopheles larvæ."

"As regards the area of surface that can be kept free from larvæ by Haplochilus in capacity, three of these small fish were sufficient to prevent any larvæ developing in a small aquarium having a surface area of 1'-6" by 2'-6"."

44. Tabloids of Quinine Hydrochloride were freely distributed during the year amongst the poor by house to house distribution and also amongst the poor Charitable Institutions in the City.

45. The following Table shows the localities and the Institutions where it was distributed :—

QUININE DISTRIBUTION.

To whom issued.	Quantity Issued	
	Gr. ii.	Gr. iv.
The Secretary, Sir J. J. Parsee Benevolent Institution	8,100	15,060
The Sister in charge, St. Joseph's Foundling Home.	300	...
The Secretary, American Mission School for the Blind	300	...
" Lady Northcote Hindu Orphanage, Parel...	...	1,000
" Mahomedan Female Orphanage	200	100
Issued for distribution, through Malaria Inspector, A Ward, to the poor labourers of the Health Department, Cochin Street and Paltan Road Chawls	1,700	350
Issued to the poor employés of the Parsi Press	...	1,370
Issued to poor labourers of the Bombay Cotton Mill	...	870
Issued to Municipal employés drawing low salaries	450	600
Issued to the M. I. B Ward for distribution to the Malaria infected tenants in Mandvi Section	...	300
Issued to the Chief Officer, Fire Brigade	...	300
Issued to the District Registrar, No. 1 District	...	1,745
Do. do. do. 2 "	500	1,375
Do. do. do. 3 "	...	1,745
Do. do. do. 4 "	500	875
Do. do. do. 5 "	...	875
Do. do. do. 6 "	...	1,745
Do. do. do. 7 "	...	875
Do. do. do. 8 "	...	875
Do. do. do. 9 "	500	6,125
Do. do. do. 10 "	...	2,245
Issued to a poor Parsee family in Fort North for enlarged spleen ...	600	24
	13,150	38,454

Esanophele.

46. A second trial was given to these pills at the request of the Italian Consul and control experiments were made with Quinine Hydrochloride Tabloids on the children in the Lady Northcote Hindu Orphanage.

Dr. H. D. Gimi, Malaria Inspector, A Ward, was placed on this special duty who submitted the following report :—

REPORT ON ESANOPHELE.

"Treatment with Esanophele, controlled with Quinine in most cases, was commenced on the 1st September 1913.

"The majority of the cases belonged to the Parel Hindu Orphanage, where Malaria of a particularly severe type raged this year.

"In all 43 (forty-three) cases were treated, which may conveniently be divided into three batches as under :—

"I. At first twenty (20) boys of the Parel Orphanage were examined, including one of their teachers. The examination included a total red blood count, a differential count HgB value examination of blood for parasites, &c.

"Nearly half of these were put on Esanophele and the remaining on Quinine Hydrochloride as a control. As far as practicable, cases of nearly the same severity were detected and put on Quinine and Esanophele respectively. Thus eleven were put on Esanophele and nine on Quinine.

"II. About this time many boys of the Institution were down with Malaria, and it was decided to examine eighteen (18) boys more. These were all acute cases and their examination was limited to estimation of size of spleen and examination of blood smears for parasites.

"These eighteen (18) cases also, as in the above cases, were divided into nine on Esanophele and nine on Quinine.

"III. Esanophele was tried on a few cases of Chronic Malaria with considerable enlargement of spleen. Only five such cases were available and for lack of material all these five were put on Esanophele.

"The examination of these five was on the same lines as of the first batch with the exception of the total blood count and the differential count.

"The age of the boys varied with three exceptions from 8 to 17 years.

"Boys between 7 and 14 years got 4 pills of Esanophele every day, or three tabloids (grs. iv each) of Quinine Hydrochloride; and boys above 14 years got six pills of Esanophele or 4 tabloids of Quinine Hydrochloride.

"Treatment with either Esanophele or Quinine was continued for three weeks before the boys were subjected to a second examination.

"No untoward effect of Esanophele was noticed in any case. None of the boys complained of diarrhœa.

RESULT OF THE TREATMENT.

"I. In the first batch of cases both Esanophele as well as Quinine caused a reduction in the size of the spleen, as well as disappearance of parasites in most cases. The only advantage noticeable of Esanophele over Quinine was an increase in the HgB value which was not so marked in cases under Quinine.

"II. In the second batch also, the above remarks hold good. No doubt HgB value was not estimated in these cases, but the general condition of the boys on Esanophele was apparently better than that of those on Quinine.

"III. This batch included five chronic cases of Malaria with considerable enlargement of spleen and general malarial Cachexia. Nearly all of these five cases showed very great improvement. Not only did their spleens reduce in size, but their general condition improved as well.

"Quinine would not have worked equally well in these cases, and one is especially emboldened to give this opinion from the case of Sakharam Jivaji, who, I know, was a chronic sufferer and always took Quinine or Quinine and Arsenic mixture without much benefit.

"On the whole, Esanophele appears to have very good effect on Chronic cases. Unfortunately these chronic cases were only five in number, and consequently they were not controlled with similar cases on Quinine."

Dengue Fever.

47. (*a*) In August, September and October Dengue Fever was very prevalent in the City. The disease was imported from Surat and other cities in Guzerat.

(*b*) Dengue Fever is communicated to human beings through the agency of mosquitoes—Culex variety. Culex fatigans is the chief agent in the propagation of the disease. During these months the storm-water entrances, which have to remain open, are the chief breeding places. Although all possible steps were taken both by this and the Health Department to pesterine these entrances, the epidemic stopped only after these entrances were entirely blocked up.

(*c*) This disease is easily mistaken for Malaria Fever, and in fact many practitioners reported them as such. In the "*Indian Medical Gazette*" it is reported that these Dengue Fever cases are easily mistaken for 4, 6 and 8 days fever. The chief symptoms of Dengue Fever are, fever, pain and cutaneous eruptions. The occurrence of fever is practically synchronous with the pain, and either immediately or within an hour, the primary rash makes its appearance. The rash is an erythematous one, somewhat resembling Scarlet Fever, and is

chiefly confined to the face and upper and lower extremities. About the third day of the fever, a crisis usually occurs and with the decline of the fever, the pains and headache are relieved and in one or two days the temperature reaches the normal.

(*d*) During this epidemic Quinine tabloids were house-to-house distributed and handbills on the prevention of Malaria were distributed broadcast.

48. October and November, *i.e.*, immediately after the rains, are the principal months in which Malaria Fever is very prevalent. This is due to innumerable pools and puddles which act as breeding places for Anopheles mosquitoes and thus acting as the propagators of the disease.

49. In the preceding year examination of the children of spleen was made in the several Municipal and Charitable schools. From April house-to-house inspection was made in the several Sections of the City.

50. The following Table shows the result of the Spleen Census by Wards and Sections :—

Spleen Census from 1st January to 31st December 1913 by Wards and Sections.

Percentage by Wards.	Section.		No. of children examined.	No. of children with enlarged spleen.	Percentage.
15·87	A	Colaba ...	46	3	6·52
		Fort North	2,730	417	15·27
		Esplanade	243	38	15·63
3·18	B	Mandvi ...	1,889	28	1·48
		Chukla ...	304	14	4·6
		Umarkhadi	479	12	2·5
		Dongri	71	4	5·63
		Market ...	933	59	6·32
4·89	C	Ohobi Talao	2,214	139	6·27
		Fanaswadi	257	9	3·5
		Bhuleshwar	661	17	2·57
		Kumbharwada	364	6	1·64
		Khara Talao	199	10	5·02
3·41	D	Khetwadi	748	36	4·81
		Girgaum	888	26	2·92
		Chaupati	228	6	2·63
		Walkeshwar	132	3	2·27
		Mahaluxmi	200	4	2·00
4·96	E	Mazagaon	739	65	8·79
		Tarwadi	1,493	55	3·67
		Byculla ...	1,339	44	3·28
		1st Nagpada	59	6	10·16
		2nd Nagpada	256	11	4·29
		Kamathipura	148	15	10·13
		Tardeo ...	394	24	6·09
3·56	F	Parel ...	787	34	4·32
		Sion ...	279	4	1·43
0·71	G	Worli ...	207	...	0·00
		Mahim ...	211	3	1·42
	Outsiders ...		115	2	1·73
			18,613	1,094	5·87

51. From this it will be seen that Fort North and Esplanade Sections of A Ward showed the highest spleen rate being respectively 15·27 and 15·63.

52. The spleen rate in these Sections in the previous years was as follows :—

	1909.	1910.	1912.	1913.
Fort North...	49·44	.....	40·48	15·27
Esplanade	73·38	48·4	27·37	15·63

53. Thus there is a considerable improvement in these Sections, the spleen rate gradually going down. This is due to the large number of breeding places being abolished both inside and outside houses.

54. Dhobi Talao and Market Sections of C Ward also show improvement:—

	1910.	1912.	1913.
Market	18·8	15·96	6·32
Dhobi Talao	14·3	14·29	6·27

55. The spleen rate for the whole City was 5·87 per cent.

56. A spleen rate between 10 and 25 per cent. is considered "a moderately endemic area" by experts.

57. The following Table shows spleen rate by Castes:—

Castes.	No. of children examined.	No. with enlarged spleen.	Percentage
Hindoos	12,083	570	4·71
Mahomedans	1,998	114	5·75
Parsees	3,156	289	9·15
Jews	278	18	6·47
Native Christians	962	96	9·97
Europeans	126	7	5·55
Chinese	10	...	0·00
	18,613	1,094	5·87

58. From this it will be seen that Parsees still show higher rate than the two other communities, except Native Christians, where the rate is almost the same as Parsees; but this high rate is due to the small number examined.

59. There is a good improvement amongst the different communities as will be seen from the following Table:—

	1910.	1912.	1913.
Hindoos	16·5	10·55	4·71
Mahomedans	20·5	4·88	5·75
Parsees	24·7	19·96	9·15
Christians	13·3	8·26	9·97
Jews		6·96	6·47

60. In addition, the District Registrars examined the children attending their dispensaries for spleen and the following Table gives results of those inquiries by Wards:—

Ward.	No. examined.	No. with enlarged spleen.	Percentage.
A	63	28	44·44
B	4,107	589	14·34
C	3,527	582	16·5
D	3,620	56	1·54
E	961	238	24·55
F	994	52	5·32
G	1,076	72	6·69
	14,348	1,615	11·25

61. The following Table shows by Races the result of the Spleen Census taken by the District Registrars :—

Caste.	No. examined.	No. with enlarged spleen.	Percentage.
Mahomedans	3,671	582	15 85
Hindos	8,846	745	8·42
Parsees	774	106	13·69
Christians	635	91	14·33
Jews	422	91	21·56
	14,348	1,615	11·25

62. *Blood Examination.*—As in previous years random sampling was continued. The parasite rate by Sections and Wards was as follows :—

	Sections.	No. of specimens examined.	No. in which parasites found.	Percentage by Sections.	Percentage by Wards.
A	Upper Colaba	102	1	0·98	2·98
A	Lower Colaba	72	1	1·28	
A	Fort North	120	6	5·00	
A	Esplanade	175	6	3·42	
B	Mandvi	159	1	0·62	2·89
B	Chukla	100	*Nil*	0·00	
B	Umarkhadi	100	5	5·00	
B	Dongri	101	5	4·95	
B	Market	59	4	6·78	
C	Dhobi Talao	53	1	1·88	1·88
D	Khetwadi	101	*Nil*	0·00	0·00
D	Girgaum	100	*Nil*	0·00	
E	Tarwadi	120	9	7·50	5·45
E	Byculla	100	3	3·00	
	Total ...	1,461	42	2·87	

63. In all 256 specimens of blood of patients suffering from Fever were sent by the District Registrars. The following Table shows the results by Registration Districts :—

District No.	No. of slides sent.	No. in which parasites found.	Percentage.
1	71	21	29·57
2	6	...	0·00
4	20	2	10·00
5	119	15	12·60
6	14	2	14·28
7	3	...	0·00
8	4	...	0·00
9	19	1	5·26
Total ...	256	41	16·01

N. B.—The higher rate in Tarwadi Section is due to the very high rate in the Mahomedan Girls' Orphanage near Chinchpokli where it was 35 per cent., in August 1913.

64. *Mortality and Malaria.*—The following Table shows the mortality for Malaria by Wards:—

Ward	1908.	1909.	1910.	1911.	1912.	1913.
A	77	72	80	81	91	65
B	133	71	78	112	101	47
C	41	45	50	52	58	53
D	38	20	29	23	22	24
E	35	51	37	39	56	47
F	5	11	9	9	22	10
G	6	6	1	10	7	11
Harbour.	6	17	9	8	3	4
Total ...	341	293	293	334	360	261

From this it will be seen that the figures for the last year are considerably less than any of the previous years.

65. The result of the spleen and parasite rate of the City Improvement chawls in Palton Road was as follows:—

	1909.	1912.	1913.
Spleen rate	56	36·00	18·01
Parasite ,, ...	40	19·17	3·12

66. The following Table shows at a glance by Wards the spleen and parasite rates and Malarial mortality for three years:—

	Spleen Rate.			Parasite Rate.			Mortality from Malaria.		
	1910.	1912.	1913.	1910.	1912.	1913.	1910.	1912.	1913.
A...	29·9	33·50	15·87	34·8	10·54	2·98	89	91	65
B...	13·0	15·03	3·18	13·1	3·01	2·89	78	101	47
C...	5·9	9·99	4·89	34·5	14·14	1·88	50	58	53
D...	2·7	3·90	3·41	3·8	0·00	0·00	29	22	24
E...	1·8	11·40	4·96	3·8	7·97	5·45	37	56	47

67. From this Table it will be readily seen that the returns for the last year in all the three heads show considerable improvement over the figures of the previous years. This no doubt is due to the Anti-Malarial Measures adopted by the Special Department. Next year may show better results if we continue the line of policy adopted hitherto.

68. 2,722 specimens of Anopheles larvæ were examined and tabulated in this office.

69. In some wells and fountains, Chironomus (midges), which may be mistaken for mosquitoes, were found. These flies can be easily distinguished by the absence of proboscis and the veins of the wings being more complex and devoid of scales. Their larvæ are red wormlike creatures and can be easily distinguished.

70. I give below a short statement showing letters addressed to different Departments of the Municipality and the public:—

(*a*) To—The Municipal Commissioner.

(1) (For protecting all storm-water entrances in the City with wrought-iron plates).

The Municipal Commissioner was pleased to sanction this office proposal to spend Rs. 4,000 and to spend annually Rs. 20,000 on remodelling drains and to provide concrete covers.

(2) (*For Victoria Garden wells.*) The Municipal Commissioner deciding to hermetically cover these wells.

(3) (*For Maidan wells.*) The Executive Engneer, Presidency, wrote to us that Government would be prepared to cover up and fix hand-pumps to wells belonging to Government, provided the Municipality did the same work as regards the other four wells belonging to the Municipality. The Municipal Commissioner approved this proposal and estimates are being prepared.

(*b*) To—The Executive Engineer, Bombay Municipality. (To hermetically cover all road watering cisterns in the City; under correspondence).

(*c*) To—The Hydraulic Engineer—

(*a*) Regarding the filter beds in the Reservoir—that each filter should be self-protected.

(*b*) Not to give water taps in new buildings under construction and other places, unless there are arrangements to drain off the water.

(*d*) To—The Executive Engineer, Presidency—

(*a*) *Re.* wells in charge of Government to be provided with concrete covers and hand-pumps fixed—work done.

(*b*) *Re.* wells in the Museum site to be hermetically covered and hand-pumps fixed—work done.

(*c*) *Re.* tank behind Old Government House, Parel. The reply was that an estimate amounting to Rs. 47,162 has been sent on to Government and orders awaited.

(*e*) To—The City Improvement Trust—

Re. the question of reclaiming the foreshore on Nepean Sea Road near Petit Hall—is still under consideration.

(*f*) To—The Secretary, Bombay Port Trust, and the Port Health Officer—

Re. the mosquito nuisance created in bilge water in native crafts in the Harbour, and the Municipal Commissioner has written to the Port Trust to get their Act amended so as to include these boats for action by the Medical Officer of the Port.

(*g*) To—The G. I. P. Railway Company—

The Agent and the Superintending Engineer—about mosquito breeding places in their compounds—complied with.

(*h*) To—The B. B. & C. I. Railway Company—

Re. the kutcha drains on either side of Railway Lines, to either drain off or fill in the kutcha drain by the side of the Railway lines or to keep them free from larvæ and also to cover hermetically all overhead cisterns.

(*i*) To—The Superintending Surgeon, European General Hospital—

Re. the fountain and other breeding places in their compound. Fountain kept dry and no larvæ found in other places.

(*j*) To—The Staff Officer, R. I. M. Dockyard—

To protect their overhead cisterns either with iron plates or to cover them with Christies' wire-gauze—under correspondence and agreeing to cover with wire-gauze.

(*k*) To—The Secretaries of the several Mills in the City—

To keep old iron parts of machinery in a covered shed so as to prevent the breeding of larvæ in the hollow parts of the machinery during the rains.

(*l*) To—The Secretary, Indo-British Institution—

Re. the spleen census of the children and informing him that the percentage of the boys being greater than the girls was due to mosquito nets not being properly used in the case of the former.

71. The following Table shows by Wards the number of wells in each, the number filled in, covered and other particulars :—

Ward.	Total No. of houses.	Total No. of wells and tanks.	Total No. of wells and tanks filled in.	Total No. of wells and tanks covered	Total No. under fish trial.	Total No. under legal action.	Total No. of wells and tanks under correspondence.	Total No. not breeding larvæ.	Remarks.
A ...	1,955	710	88	302	29	175	36	80	
B ...	4,456	494	27	287	...	55	108	17	
C ...	4,769	892	53	395	42	111	162	125	
D ...	2,663	889	89	372	29	79	68	252	
E ...	3,356	404	57	90	15	21	121	97	
F ...	6,977	635	12	7	95	1	47	473	
G ...	2,872	852	8	3	31	2	52	756	
Total ...	27,048	4,876	333	1,456	216	447	594	1,800	

72. The following Table shows in a tabular form the actual work done during the year and the amount of work from the beginning upto 31st December 1913 :—

	Work done during 1913.	Work done from the beginning up to 31st December 1913.
No. of wells and tanks filled in	99	333
No. of wells and tanks covered without trap-doors.	287 } 703	1,456 } 1,789
No. of wells and tanks covered with trap-doors...	317	.....
No. of wells and tanks covered or filled in without resorting to legal action	343	834
No. of wells and tanks reported to the Standing Committee and the Commissioner	547	797
No. in which sanction of the Standing Committee or the Municipal Commissioner was received	531	745
No. of prosecutions instituted under Section 381 of the Act ...	382	456
No. of houses inspected by the staff, including repetitions ...	2,17,366	3,64,894
No. in which Anopheles were found	3,066	8,898
(a) in wells 2,670		
(b) in tanks, &c. 1,396		
No. inwhich Culex were found	4,234	6,658
(a) in wells 1,797		
(b) in tanks, &c., 2,437		
No. of letters and notices written for hermetically covering cisterns	686	1,121
No. of cisterns hermetically covered	143	1,100
No. of lectures delivered	7	21
No. of children examined for spleen	18,613	21,559
No. of blood slide examined	1,717	2,564
No. of specimens of larvæ of Anopheles inspected and classified..	2,722	5,119
No. of Tabloids of Quinine distributed	51,604	51,604
gr. ii. 13,150		
gr. iv. 38,454		
No. of letters inwarded	22,940	37,267
No. of letters outwarded	31,236	51,288

73. The total expenditure of this Department from April 1912 to 31st December 1913 was Rs. 1,01,443.

74. The staff both outdoor and indoor worked satisfactorily.

I have the honour to be,

Sir,

Your most obedient servant,

K.B. SHROFF, L.M. &. S., D.P.H., D.T.M.,

Special Assistant to the Health Officer, Malaria.

Report of the Analytical and Bacteriological work done in 1913.

SIR,

I have the honour to submit herewith the following report of work done in the Municipal Laboratory during the year 1913.

During the period under report, 7,966 samples were examined (including individual tests for different microbes) * showing an excess of

4,212	samples	over	those	of	1908
2,877	,,	,,	,,	,,	1909
3,464	,,	,,	,,	,,	1910
2,768	,,	,,	,,	,,	1911
2,291	,,	,,	,,	,,	1912

This steady increase, particularly since 1910, is mainly due to the Special Research work undertaken by me since my taking over charge of this Laboratory. The enormous increase in the number of samples examined during 1913 is mostly due to the Special Research on Bombay Milk supply. If this were to be excluded, then there would be hardly any difference between the total number of routine samples examined in 1912 and those examined in 1913.

THE FOLLOWING IS A BRIEF SUMMARY OF THE WORK.

I. *Chemical Analysis* includes the following :—

1. Examination of Food Stuffs of various kinds, including Milk and Ghee, etc.
2. ,, ,, Public Water-supply bi-weekly, and Well waters daily.
3. ,, ,, Fats and Oils other than edible.
4. ,, ,, Drugs and Disinfectants.
5. ,, ,, Urine, etc., for diagnostic purposes.
6. ,, ,, Miscellaneous samples, such as lime, etc.

Total number of samples examined chemically was 2,163.

1. The total number of *Food Stuffs* examined chemically during the period under report was 379, a detailed list of which is as follows :—

Nature of sample.	Negative for Mineral poison.	Wholesome for use.	Genuine.	Doubtful purity.	Good.	Fair.	Not Genuine.	Total.	Remarks.
Milk	.....	.....	90	4	1	.....	59	154	†
Butter	.....	.....	1	.....	.....	.....	3	4	
Ghee	.....	.....	3	.....	.....	.....	5	8	
Edible Oils	.....	.....	25	.....	5	17	18	65	
Condensed Milk	.....	.....	2	.....	.....	2	.....	4	††
Tea	.....	.....	3	.....	6	.....	12	21	
Coffee	.....	.....	3	.....	2	8	2	15	
Flour	.....	.....	63	.....	20	8	5	96	
Biscuits	.....	1	.....	.....	.....	.....	.....	1	
"Asparagus Tip"	.....	1	.....	.....	.....	.....	.....	1	
Tinned Fish	.....	2	.....	.....	.....	.....	.....	2	
Vinegar	.....	.....	.....	.....	4	.....	.....	4	
Ghee, imitation	.....	.....	.....	.....	.....	.....	1	1	For Ghee.
Ghee, vegetable	.....	.....	1	.....	.....	.....	.....	1	
Aerated Water	.....	.....	.....	.....	.....	.....	.....	2	§
Total	4	1	190	4	38	35	105	379	

* Examination for each separate microbe is counted as one sample.

† Most of these samples were known to be genuine and were especially collected for Research in Bombay Milk Supply.

†† Two fair for skimmed milk.

§ The water used in the manufacture of one sample only was fit for potable purposes ; these two samples are not included in the description list here, but included in grand total.

2. *Public Water-supply, etc.*—279 samples of public water-supply were examined; those from the City were collected by this office and those from Lakes were collected by the Hydraulic Engineer, besides six were collected by the officers of the Health Department.

982 samples of waters were examined as follows :—

Source.	Locomotive.	For Potable purposes.					Total.
		Fit.	Fair.	Suspicious.	Objectionable.	Unfit.	
Wells	1	83	59	30	89	702	964*
Tanks	...	...	...	...	...	8	8
Cisterns	...	...	...	...	...	1	1
River	1	...	...	...	...	...	1
Not specified	...	3	...	...	...	...	3
Total ...	2	86	59	30	89	711	977

3. *Fats and Oils other than edible.—Fats.*—Twelve samples of fats were examined, the details of which are as follows :—

Coloured according to the standard office sample	2
Colour did not agree to the standard office sample	8
To ascertain animal or vegetable fat	2†
Total ...	12

Oil other than edible.—Nine samples of oil, other than edible were examined as follows :—

7 of cocoanut oil for burning purposes—*Fair.*
1 of Linseed oil—*Fair.*
1 of White Oil.

Total ... 9 samples.

4. *Examination of Drugs, etc.—Drugs.*—Total number of samples examined, 5 : the details are as follows :—

3 samples of Hydrochloric acid, 1 of Perchloride of Mercury, and 1 of Spt. of Turpentine were examined and found to be good samples.

Disinfectants.—Total number of samples examined 3, details as follows :—

3 samples of Sulphur were examined and found to be good.

5. *Urine, etc., for diagnostic purposes.*—487 samples of Urine and 1 of renal calculus were examined mostly for the private medical practitioners.

6. *Miscellaneous samples.—Lime,*—Five samples of lime were examined for the Hydraulic Engineer to ascertain the percentage of CaO.

* Added to these 5 samples in which opinion was not given for want of particulars regarding surroundings, etc.

† No positive opinion could be given in the case of one sample whether it is "Animal" or "Vegetable" origin, but the sample gave the principal chemical tests for fat, and in the case of the other microscopical and physical examination indicated that it contained some fat or fats probably of the nature of tallow.

Tinning Ribbon.—A sample was examined and found to contain 99·8 per cent. of tin and no trace of lead.

II. Bacteriological Examination.

This consists of.—

1. The examination of Food Stuffs of various kinds.
2. Do. Public water-supply, bi-weekly, and other waters daily.
3. Do. Disinfectants, experiments of Larvicide, etc.
4. Do. Glycerinated Vaccine.
5. Do. Blood, Sputum, Urine and Stools for Cholera, Turbercle and Fevers, etc.

The total number of samples examined bacteriologically was 5,803.

1. The total number of *Food stuffs* examined, including ærated water, was 2,364, the details of which are as follows :—

2,354 samples of milk (for Details please see under Research work).

4 samples of condensed milk, one showed Leucocytes, Staphylococci, B. C. Communis, and bacilli; another showed Streptococci, and the remaining two free from any bacteria.

2 samples (1 of Rice and 1 of Vegetables) for Cholera vibrio—Results NEGATIVE.

1 sample of sodawater for B. Typhosus—Results NEGATIVE.

1 sample of "Asparagus tip." Found to be unfit as human food.

2 Tinned Fish. Did not show any presence of micro-organisms on ordinary culture media.

Total. 2,364

Bacteriological examination of public water-supply, etc.

Public Water-supply.—

1,361 samples of public water-supply were examined, the details of which are as follows :—

194 for Microbes per c. c.

Filtered Water	Least number of microbes per c. c.	34
	Highest „ „ „ „	387
Unfiltered Water	Least „ „ „ „	259
	Highest „ „ „ „	1,185

258 for Cholera vibrio
324 „ B. Typhosus
195 „ Gartner's Bacillus
195 „ B. E. Sporogenes
} None was detected in any.

195 *samples for B. Coli (Lactose Fermenters).*

17 did not show presence in 5 c. c. and less of water.

178 showed presence.

Total... 195

39 samples of other waters.—

Of wells ... ... 8 for Cholera, 4 for B. Typhosus.
Not specified... ... 8 for Cholera, 11 for B. Typhosus.
Of storage Tank ... 1 for Cholera.
Of Tanks ... ... 2 for Cholera.
Collected from Filters at private residences—5 for B. Typhosus. Results for both Negative.

Total 19 for Cholera and 20 for B. Typhosus.

3. *Disinfectants, etc.*—Fourteen samples were examined for determining their bactericidal power, as follows:—

5 of Izal Fluid.
6 of Izal Powder.
3 of Zondo Fluid.

Total... 14

Experiments with Larvicides.

The following experiments with Larvicides were made :—

Serial No.	Fluid used.	Dilutions.	Approximate time required for killing Larvæ.	No. of Larvæ put in each Beaker.	No. of dead Larvæ in each Beaker.	No. of living Larvæ in each Beaker.
1	Bleaching powder.	* Gram 1 in 100 c. c. Water.	38 hours ...	1 Culex Larvæ.	1	Nil.
2	Do.	,, 300 c. c. ,,	.....	1 do.	Nil.	1
3	Do.	,, 500 c. c ,,	50 hours ...	1 do.	1	Nil.
4	Do.	,, 750 c. c. ,,	54 do. ...	1 do.	1	Nil.
5	Do.	,, 1000 c. c ,,	54 do. ...	1 do.	1	Nil.
6	Do.	,, 100 c. c. ,,	40 do. ...	5 Anopheles Larvæ.	2	3
7	Do.	,, 300 c. c. ,,	53 do. ...	5 do.	2	3
8	Do.	,, 500 c. c. ,,	48 do. ...	5 do.	1	4
9	Do.	,, 750 c. c. ,,	.....	5 do.	Nil.	5
10	Do.	,, 1000 c. c. ,,	56 hours ...	5 do.	1	4
11	*Iodi-Terchloride.	,, 2000 c. c. ,,	15 minutes ...	5 do.	4	1
12	Do.	,, 4000 c. c. ,,	35 do. ...	5 do.	4	1
13	Do.	,, 6000 c. c. ,,	40 do. ...	5 do.	5	Nil.
14	Do.	,, 8000 c. c. ,,	35 do. ...	5 do.	2	3
15	Do.	,, 10000 c. c. ,,	50 do. ...	5 do.	2	3
16	Do.	,, 15000 c. c. ,,	2 hours ...	5 do.	2	3
17	Do.	,, 20000 c. c. ,,	Hrs. mints. 2 30 ...	5 do.	2	3
18	Soap solution plus 4 drops of Kerosine Oil.	,, 100 c. c. ,,	35 minutes. ...	2 Culex Larvæ.	2	Nil.
19	Do.	,, 500 c. c. ,,	35 do. ...	2 do.	2	Nil.
20	Do.	,, 1000 c. c. ,,	41 do. ...	2 do.	2	Nil.
21	Izal fluid.	1 c. c. in 500 c. c. ,,	4 do. ...	6 do.	6	Nil.
22	Do.	,, 750 c. c. ,,	6 do. ...	6 do.	6	Nil.
23	Do.	,, 1000 c. c. ,,	6 do. ...	6 do.	6	Nil.
24	Do.	,, 2000 c. c. ,,	10 do. ...	6 do.	6	Nil.
25	Do.	,, 4000 c. c. ,,	15 do. ...	6 do.	6	Nil.
26	Zondo fluid.	,, 500 c. c. ,,	1 minute ...	5 do.	5	Nil.
27	Do.	,, 750 c. c. ,,	1 do. ...	5 do.	5	Nil.
28	Do.	,, 1000 c. c. ,,	2 do. ...	5 do.	5	Nil.
29	Do.	,, 2000 c. c. ,,	6 do. ...	5 do.	5	Nil.
30	Do.	,, 4000 c. c. ,,	18 do. ...	5 do.	5	Nil.
31	*Larvicide A	,, 5000 c. c. ,,	5 do. ...	4 Anopheles Larvæ.	4	Nil.
32	Do.	,, 10000 c. c. ,,	8 do. ...	4 do.	4	Nil.
33	Do.	,, 15000 c. c. ,,	12 do. ...	4 do.	4	Nil.
34	Do.	,, 20000 c. c. ,,	22 do. ...	4 do.	4	Nil.
35	Do. B	,, 5000 c. c. ,,	8 to 24 hours.	4 do.	4	Nil.
36	Do.	,, 10000 c. c. ,,		4 do.	4	Nil.
37	Do.	,, 15000 c. c. ,,		4 do.	4	Nil.
38	Do.	,, 20000 c. c. ,,		4 do.	4	Nil.

Identification of Worms.

Two samples of worms collected from water were identified as "Trematodes."

4. *Glycerinated Vaccine.*—1,921 capillary tubes of glycerinated vaccine were examined for the Superintendent of Vaccination.

5. *The examination of Blood, Sputum, Urine, and Stools for Cholera vibrio, Tubercle Bacilli, Fever, etc.*

The total number of *blood* specimens examined was 14, the details of which are as follows:—

5 for Malaria ... All negative.
3 for B. Typhosus ... ... ,, ,,
2 for Relapsing Fever ... ... ,, ,,
1 for Septicæmia Hæmorrhagica ... Negative.
3 for differential count of white blood cells.

Total 14.

* Kindly supplied by Professor T. K. Gajjar's Techno-Chemical Laboratory, Girgaum.

44 samples of *sputum* were examined as follows :—

41	for Tubercle Bacilli	8 showed the presence of Tubercle Bacilli.
3	for Plague	None showed any B. Pestis.
Total ... 44		

7 samples of *urine* were examined as follows :—

3	for Gonorrhœa	2 samples showed Gonococci.
3	for Tubercle Bacilli	None showed any.
1	for B. Typhosus	Did not show.
Total ... 7		

19 samples of *stools* were examined as follows :—

4	showed Cholera vibrio.
1	,, Comma like bacilli (Cultural tests negative.) and Spirilli.
12	did not show Cholera vibrio.
2	for B. Typhosus ... ... Negative.
Total ... 19	

III. *Preparation of Rat Poison and Mercurial Solution.*

This work was continued, as in the past, at the Central Disinfection Depôt, Northbrook Garden, Grant Road.

Rat Poison.

93	Jars prepared during the period under report.
11	Jars balance on 1st January 1913.
Total ... 104	

Out of these 93 Jars were issued as follows :—

6	Jars	to A	Ward;
28	,,	,, B	,,
12	,,	,, C	,,
18	,,	,, D	,,
24	,,	,, E	,,
4	,,	,, F	,,
1	,,	,, G	,,
Total ... 93			

Thus a balance of 11 Jars of Rat poison is left in hand on 1st January 1914.

Mercurial Solution for Disinfection purposes.

182	Jars prepared during the period under report,
28	,, balance on 1st January 1913.
Total ... 210 Jars.	

Out of these 183 Jars were issued as follows :—

10	Jars	to A	Ward.
50	,,	,, B	,,
21	,,	,, C	,,
22	,,	,, D	,,
50	,,	,, E	,,
20	,,	,, F	,,
10	,,	,, G	,,
Total ... 183			

Thus a balance of 27 Jars is left in hand on 1st January 1914.

Facilities for Bacteriological work were given to Dr. Coutinho of the King George Anti-Tuberculosis League to prepare a few vaccines here; besides 15 samples of sputum were examined for the Anti-Tuberculosis League Dispensary.

RESEARCH WORK.

Bombay Milk.

The most important Research during the year under report was a *systematic Chemical and Bacteriological Examination of the Bombay Milk Supply*. This has been undertaken with a view of (1) establishing definite Milk Standards for India and (2) finding out the amount of adulteration with water, and the extent of contamination with objectionable micro-organisms.

A preliminary paper was read before the All-India Sanitary Conference in Lucknow in January 1914. The work is still being continued, and after its completion I hope to write out a special report on the milk problem in Bombay.

Bacteriological Examination of Milk.

It may be pointed out that a systematic Bacteriological Examination of milk has never been attempted before by anyone in India, and consequently we had absolutely no data to start with. Considerable difficulty was experienced in the beginning to work out practical methods best suited for local conditions. The samples of milk were collected in special bottles provided for the purpose and were stoppered and sealed in the usual way. They were examined as soon as possible after collection. The following routine was followed in the examination of the samples:—

(1). *Preliminary dilutions of the samples* with sterile water. These were made in a series of test-tubes as follows :—

1 : 10, 1 : 100, 1 : 1000, 1 : 10,000, 1 : 100,000, and one in million. These dilutions were used for (2) and (3).

(2) *Microbes per c. c.*—Agar plates were used for this purpose and a count was made after incubating for 48 hours at 37°C.

(3) *Lactose Fermenters.*—MacConkey's Bile Salt medium (with lactose) was used in Durham's fermentation tubes and the results noted with regard to acid and gas formation. The dilutions used were from 1 : 10 to 1 : 1,000,000.

(4) *B. Enteritides Sporogenes.*—15 c. c. of the sample were used. The milk was heated for 15 minutes at 80°C, rapidly cooled and incubated anærobically and was examined for the characteristic changes from four to five days.

(5) *B. Coli-like Organisms.*—These were isolated on Neutral Red Agar and examined for acid and gas formation, (MacConkey's Bile Salt Media) and for Indol test.

(6) *Cholera.*—Cultures were made on Peptone water and examined for Cholera in the usual way.

(7) *Typhoid.*—Drigalski-Conradi's medium and Neutral Red Agar were used.

(8) *Examination of the Centrifugalised Sediment.*—50. ccc. of the milk was centrifugalised in the electric centrifuge for about ten minutes. Smears were made from the deposit, stained with Carbol-fuchsin (1 : 10) and examined microscopically for Leucocytes, Streptococci, Staphylococci, and other micro-organisms, etc., that may be present.

(9) *Tuberculosis.*—The results of examination for Tubercle Bacilli are described separately on page 77.

The samples of milk examined bacteriologically may be divided into three classes :—

Class I.—Those collected from healthy animals under the strictest precautions; and examined *immediately* after collection.

Class II.—Those collected by the Chief Veterinary Inspector and his staff with ordinary precautions and sent to the Laboratory, the time elapsing between the collection and examination varying from *three to four hours.*

Class III.—Those bought at random in the different Wards of the City from Dairies, milk-shops, cattle-stables, Railway Stations, Gowlees and other milk-vendors, by the staff of the Health Department. These samples fairly represent the quality of milk as is usually sold to the public in Bombay. As the "morning milk" is taken between 2 and 4 a. m. and sold a few hours later in the Bazars; *six to nine hours* pass before it arrives for examination at the Municipal Laboratory.

Class I.—Samples collected at the Municipal Laboratory under the strictest precautions.—Several cows and buffaloes belonging to a dairy were brought over to the Municipal Laboratory after being examined by a Veterinary Surgeon and certified to be entirely free from disease. The animals were thoroughly scrubbed and washed. Just before milking, the udders and neighbouring parts were washed first with an antiseptic solution and finally with sterile water. The milking was done by the Manager of the dairy himself, his hands being rendered surgically clean in the usual way. Most of the milk was drawn in sterile glass beakers, while a few drops were drawn directly into slant Agar tubes. After making the necessary dilutions, the samples were immediately subjected to the routine examination for microbes per c.c., Lactose fermenters, etc., with the following results :—

1. *Microbe per c. c.*—The average of several samples was found to be 396 *microbes per c. c.* This was probably due to the too frequent manipulations involved in diluting the milk and preparing the plates, etc. The slant Agar tubes in which milk was directly drawn were found to be sterile. This would indicate that milk drawn with strictest precautions from healthy and clean animals is practically sterile.

2. *Lactose Fermenters* were absent in 1 c.c. and less of milk.

3. Examination for B. Coli Communis, B. Enteritides Sporogenes, Streptococci, Cholera Vibrio, B. Tuberculosis and B. Typhosis was negative.

Class II.—Samples collected by the Chief Veterinary Inspector and his staff with ordinary precautions. 32 samples were examined in all. The results are given in *Table I.* (*q. v.*)

Bacteriological Examination of 32 Milk Samples of Class II.

Date.	No.	Microbes per c.c. on Agar at 37°C for 48 hours.	B Coli like organisms.	B. Typhosus.	B. Ent. Sporogenes.	Cholera Vibrio.	Lactose fermenters.	Microscopic Examination of the deposit.					Remarks.
								Streptococci.	Staphylococci.	Other Microbes	Leucocytes.	Tubercle Bacilli.	
17th June 1913. ...	1	4,100,000	—	—	—	—	— in 1 c.c.	—	—	—	+	—	
	2	1,700,000	—	—	—	—	" "	—	—	—	+	—	
	3	450,000	—	—	—	—	" "	—	—	—	+	—	
	4	3,650,000	—	—	—	—	" "	—	—	—	+	—	+ = Present.
26th June 1913. ...	5	3,500,000	—	—	—	—	+ in ·001 c.c.	—	—	—	+	—	— = Absent.
	6	5,250,000	—	—	—	—	" "	—	+	—	+	—	
	7	27,550,000	—	—	—	—	" "	—	+	—	+	—	
	8	25,650,000	—	—	—	—	" "	—	+	—	+	—	
5th Sept. 1913. ...	9	23,350,000	+	—	—	—	+ in ·000001 c.c.	—	+	+	+	—	
	10	11,350,000	+	—	—	—	" ·00001 c.c.	—	—	+	+	—	
	11	35,450,000	+	—	—	—	" "	—	+	+	+	—	
	12	8,550,000	—	—	—	—	" ·000001 c.c.	—	+	+	+	—	
	13	36,350,000	+	—	—	—	" "	—	+		+	—	
	14	46,150,000	+	—	—	—	" "	—	—	+	+	—	
25th Sept. 1913 ...	15	5,700,000	+	—	—	—	+ in ·00001 c.c.	—	+	+	+	—	
	16	6,050,000	+	—	—	—	" "	—	+	—	+	—	
	17	5,050,000	—	—	—	—	" ·0001 c.c.	—	—	+	+	—	
	18	5,050,000	—	—	—	—	" "	—	—	—	+	—	
	19	6,400,000	—	—	—	—	" "	—	—	—	+	—	
	20	5,400,000	—	—	—	—	" "	—	—	—	+	—	
22nd Dec. 1913. ...	21	13,150,000	—	—	—	—	+ in ·001 c.c.	—	—	—	+	—	
	22	20,850,000	+	—	—	—	" ·0001 c.c.	+	—	—	+	—	
	23	23,400,000	+	—	—	—	" ·001 c.c.	+	—	—	+	—	
	24	24,350,000	+	—	—	—	" ·0001 c.c.	—	—	—	+	—	
	25	28,050,000	—	—	—	—	" "	—	—	—	+	—	
	26	14,350,000	—	—	—	—	" ·001 c.c.	—	—	+	+	—	
12th Dec. 1913. ...	27	12,850,000	—	—	—	—	" "	—	—	+	+	—	
	28	14,200,000	+	—	—	—	" "	—	—	—	+	—	
	29	11,350,000	—	—	—	—	" ·01 c.c.	—	—	+	+	—	
	30	16,200,000	—	—	—	—	" ·001 c.c.	—	—	+	+	—	
	31	21,350,000	—	—	—	—	" ·0001 c.c.	—	—	—	+	—	
	32	25,900,000	—	—	—	—	" ·0001 c.c.	—	—	+	+	—	

It will be seen from this Table that B. Enteritides Sporogenes, Cholera Vibrio and B. Typhosus were not detected in any of the samples. B. Coli-like organisms were detected in eleven samples and Streptococci in two samples only. This leaves only microbes per c.c. and Lactose fermenting organisms. Taking first the *microbes per c.c.*, it will be seen that the highest count was found to be 46,150,000 microbes per c.c., while the lowest count was 450,000 microbes per c.c. The average number expressed in millions, was as follows:—

TABLE II. (Milk Samples.)

Microbes per c.c. in 32 Samples. Class II.

Month.	No. of samples.	Average No. of microbes per c.c.	Average of 32 samples.
June	8	8,981,250	14,669,000
September	12	16,195,833	
December...	12	18,833,333	

TABLE III. (Milk Samples.)

Microbes per c.c. in 32 samples expressed in Millions. Class II.

Less than 1 million.	More than 1 but less than 3.	Above 3 but less than 5.	Above 5 but less than 10.	More than 10 but less than 20.	Above 20 but under 50.
1	1	3	8	7	12

The majority of samples showed a count of more than five millions of microbes per c.c.

The above figures are only approximate, for as Savage says: "There are no nutrient media and no known conditions of growth which will allow *all* the bacteria in milk to develop."

Lactose fermenters.—Out of the 32 samples examined, only four or 12·5 per cent. did not show any lactose fermenters in 1 c.c. and less of milk. The following results were obtained:—

TABLE IV.

Lactose Fermenters in 32 samples of milk (*Class II.*)

No. of samples.	1·0 cc.	0·1 cc.	0·01 cc.	0·001 cc.	0·0001 cc.	0·00001 cc.	0·000001 cc.	Remarks.
4	—	—	—	—	—	—	—	12·5 per cent. did not show lactose fermenters in 1 c.c. and less of milk.
1	+	+	+	—	—	—	—	
10	+	+	+	+	—	—	—	
9	+	+	+	+	+	—	—	
4	+	+	+	+	+	+	—	
4	+	+	+	+	+	+	+	
Total ... 32								+Present, —Absent.

B. Coli-like organisms were detected in 11 samples out of thirty-two (32).

These results compare favourably with those obtained in the third series of samples (See Table VII.)

Class III. Samples bought at random from a variety of sources, e.g., dairies, milk-shops, cattle-stables, railway stations, individual milk vendors or Cowlees, &c., (127) One hundred and

twenty-seven such samples were examined in the same manner as Series I and II. Only a brief summary of the results is given below :—

1. *Microbes per c.c.*—The highest count was 118,400,000 microbes per c. c. and the lowest was 2,50,000 microbes per c. c. during a period of about nine months. The highest average figures were reached during May as will be seen from *Table V.*

TABLE V.

Microbes per c. c. Average of 127 Milk Samples. (Class III.)

(According to Months.)

Month.	No. of Samples.	Average of total count of microbes per c.c. on agar, at 37° C for 48 hours.	Remarks.
April 1913	12	46,363,000	The highest count was reached in May and the lowest in August and November. The average number of Microbes per c.c. from April to November was found to be 39,692,000.
May „	30	63,481,700	
June „	2	34,125,000	
July „	31	35,801,612	
August „	10	29,750,000	
October „	18	38,027,777	
November 1913	24	30,297,916	
Total ...	127	39,692,000	

TABLE VI.

Microbes per c.c. in 127 samples of milk expressed in millions.

(CLASS III.)

More than 1 but less than 5 millions.	More than 5 but less than 10.	More than 10 but less than 20.	More than 20 but less than 30.	More than 30 but less than 50.	More than 50 millions.
3	9	13	37	24	41

The majority of samples (nearly 80 per cent.) showed a count of more than 20 millions while about 33 per cent. showed more than 50 millions of microbes per c.c.

2. *Lactose Fermenters.*—The results are tabulated below :—

TABLE VII.

Lactose fermenters in 127 samples of milk (Class III.)

No. of samples.	1 cc.	0·1 cc.	0·01 cc.	0·001 cc.	0·0001 cc.	0·00001 cc.	0·000001 cc.
2	+	+	+	+	—	—	—
6	+	+	+	+	+	—	—
27	+	+	+	+	+	+	—
92	+	+	+	+	+	+	+
Total ... 127							

+ = Present. — = Absent.

All the samples showed the presence of lactose fermenting organisms in 1 c. c. and less of milk. Out of the 127 samples, 91 or 71·6 per cent. showed lactose fermenters in the weakest dilution used, *viz.*, in 0·000001 c. c. of milk. Lactose fermenters were found to be absent in 0·0001 c. c. and less of milk in two samples only. These results are extremely bad when compared to those in Table IV. (*q.v.*)

TABLE VIII.

Microbes per c. c. in Bombay Milk. Class III—127 samples.

(Distributed according to Wards.)

Ward.	No. of samples.	Average No. of microbes per c. c. from April to December 1913.	Remarks.
A	18	39,389,000	The average number of microbes per c. c. for all the seven Wards of Bombay was found to be 39,509,000. The highest count was found in F Ward and the lowest in G Ward.
B	18	43,863,000	
C	18	34,425,000	
D	20	36,887,000	
E	19	45,171,000	
F	16	49,218,000	
G	18	28,013,000	
Total ...	127		

TABLE IX.

Lactose Fermenters in Bombay milk. Class III.

(Distributed according to Wards.)

Ward.	No. of samples.	1 cc.	·1 cc.	·01 cc.	·001 cc.	·0001 cc.	·00001 cc.	·000001 cc.
A	1	+	+	+	+	+	—	—
	5	+	+	+	+	+	—	—
	12	+	+	+	+	+	+	+
Total ...	18							
B	1	+	+	+	+	+	+	—
	17	+	+	+	+	+	+	+
Total ...	18							
C	1	+	+	+	+	+	+	—
	17	+	+	+	+	+	+	+
Total ...	18							
D	1	+	+	+	+	—	—	—
	2	+	+	+	+	+	—	—
	17	+	+	+	+	+	+	+
Total ...	20							
E	1	+	+	+	+	+	—	—
	9	+	+	+	+	+	—	—
	9	+	+	+	+	+	+	+
Total ...	19							
F	5	+	+	+	+	+	+	—
	11	+	+	+	+	+	+	+
Total ...	16							
G	1	+	+	+	+	—	—	—
	4	+	+	+	+	+	—	—
	4	+	+	+	+	+	+	—
	9	+	+	+	+	+	+	+
Total ...	18							
Grand Total ...	127							

+ = Present. — = Absent.

3. *B. Enteritides Sporogenes.*—15 samples out of 127 or 11·8 per cent. gave positive tests with the production of the characteristic changes in the milk. Animal experiments were tried in a few cases but with negative results. §

4. *B. Coli-like organisms* were detected in 120 samples out of 127, giving 94·5 per cent. as compared with 34·4 per cent. in series II.

5. *Streptococci.*—The contrifugalised stained deposit examined microscopically showed the presence of streptococci in 13 samples out of 127 or in 10·2 per cent.

6. *Examination for B. typhosus, B. tuberculosis and Cholera Vibrio was negative in all cases.*

A few remarks may be now made regarding some of the above results. *Microbes per c. c.* as has been already said, *all* the colonies counted at any one time do not by any means give a *true* count of all the bacteria present in milk, for there are so many varieties of microbes found in milk that it is impossible. for them *all* to grow on the *same* medium. It cannot be denied, however, that the count has a *relative* value when made under precisely identical conditions. It may be argued that all the bacteria found in milk are not harmful. It must be remembered, however, that milk containing an excessive number of microbes cannot be said to be suitable food, particularly for infants. Besides 94·5 per cent. of the samples examined showed the presence of coli-like organisms or fæcal bacilli. Unfortunately milk is not a transparent liquid or else the enormous growth of microbes would have been quite visible to the naked eye. To get some idea of the bacterial counts found in Bombay, the figures may be compared to those of sewage in London and Boston, and of milk in London, New York, Boston and Bombay.

TABLE X.

Sewage in	Average for	Microbes per c. c.	Name of the Investigator or authority.
(1) London	1894 to 1901.	2,000,000 to 11,000,000	Rosenau.
(2) Boston	1894 to 1901.	2,800,000	

Milk in	Average for	Microbes per c.c.	Name of the investigator or authority.
(1) London ...	Dec. to February ...	3,000,000 to 5,000,000	
	June to September ...	20,000,000 to 30,000,000	Eyre.
(2) New York ...	In winter	1,000,000	
	In summer	5,000,000	Park.
(3) Boston ...	1904	2,300,000	Bergey.
(4) Bombay ...	April to November.		
	1913. (127 samples) ...	39,692,000	Joshi.

It must be borne in mind that too much stress should not be laid on these statistics as different investigators may have employed different methods and the results may not be strictly comparable. At any rate it is quite evident that Bombay enjoys the dubious honour of standing *first* in the above list:—

There are at least *three main factors which influence the multiplication of bacteria in milk*:—(1) Time, (2) Temperature, and (3) Conditions of collection and transportation of milk.

(I) *Time.*—By "Time" is meant the interval between the withdrawal of milk from the cow or buffalo and its examination at the Laboratory. A glance at the figures given on pages 70 to 74 will show the following:—

Glass.	Average time.	Average number of microbes per c. c.
Class I	Immediate Examination	386
Class II	3 to 4 hours...	14,669,000
Class III	6 to 9 hours...	39,692,000

§ From the Municipal Laboratory Records, it appears that in 1906 out of 166 samples of milk examined for B. Ent. Sporogenes, the milk-test was positive in 95 or 57·23 per cent.

In these experiments, the temperature was practically constant, but the conditions of collection, etc., were different and this must be borne in mind when comparing the results. The following figures from Frendenreich are very instructive :—

Shortly	after	milking	the	samples	contained	9,000 microbe per c.c.
1 hour	„	„	„	„	„	31,750 „ „ „
2 „	„	„	„	„	„	36,250 „ „ „
4 „	„	„	„	„	„	40,000 „ „ „
7 „	„	„	„	„	„	60,000 „ „ „
9 „	„	„	„	„	„	120,000 „ „ „
25 „	„	„	„	„	„	5,000,000 „ „ „

It may be concluded then that under identical conditions of collection, transportation, etc., and with a constant (optimum) high temperature, the longer a milk sample is kept the greater the number of bacteria in it.

(II) *Temperature.*—This is a very important factor here in India. It has been found that the majority of bacteria met with in milk grow best at about 25°C to 35°C or (77°F to 95°F). At lower temperature (15°C and below) they multiply very little. At higher temperature, the different bacteria have their different *thermal death points*. The atmospheric temperature in Bombay corresponds very closely to the most favourable temperature for bacterial growth in milk, namely, 26°C to 35°C or 77°F to 95°F, and accounts partially for the high counts obtained. It will be seen from Table 'V' that the highest number of microbes per c.c. (45 to 63 millions) was during April and May which are the hottest months in Western India. In July and August on account of the monsoon it is comparatively cooler in Bombay and correspondingly the figures show a lower count (29 to 35 millions) than in April and May.

(III) *Conditions of collection, transportation, etc.*—The cleanliness of the methods employed in milking, etc., has a direct bearing on the bacterial content of milk. It affects not only the *total number* of bacteria but also the *kind* of bacteria in milk. The dirtier the milk the greater is the number of microbes in it. This has been clearly proven by the results already tabulated under *three different classes of samples collected* under widely different conditions.

To sum up, the enumeration of microbes per c. c. in milk serves as an index to its (1) age, (2) temperature at which it was held, and (3) the cleanliness of the methods employed in its collection, etc. A favourable combination of all these three factors will result in an excessive multiplication of the bacteria present.

As regards the presence of *Lactose fermenting organisms* in Bombay milk, a comparison may be made between the figures in Table 'IV' and those in Table 'VII'. In the former case only 12·5 per cent. samples showed lactose fermenters in 0·000001 c. c. and more of milk, while in the latter case, the percentage of samples showing lactose fermenters in the same dilution was 71·6 or nearly six times as much. In the former B. Coli-like organisms were found in 34·4 per cent. of the samples, while in the latter 94·5 per cent. The presence of organisms of the B. Coli group in such large numbers indicates pollution with cow-dung, etc. This is not at all astonishing, when one remembers the filthy condition of the stables where milking is carried on. Out of the samples of milk collected with the strictest sanitary precautions, not one showed any "fæcal bacilli." This taken together with the results tabulated in Tables 'IV' and 'VII' would indicate that the presence and number of lactose fermenting organisms of the B. Coli type in milk depend mostly on the amount of cleanliness observed in milking, transporting, etc. The figures for milk of Class III (Table 'VII') show an appalling amount of manurial and other undesirable pollution of Bombay milk as is ordinarily found in the local market, dairies, milk-shops, etc.

The value of Bacteriological examination of milk in India cannot be denied in the light of the above results. Chemical examination is no doubt important, as it gives us information as to whether a sample of milk is genuine or not, that is whether it is "watered" or otherwise. If clean and pure water be added, it would not be directly injurious to health. If, however, a sample of milk shows a very high count of bacteria most of which are of fæcal origin, or the presence of a pathogenic microbe, then its bearing on health is quite evident. Again a sample of milk may be quite genuine from a chemical point of view but very objectionable from a bacteriological standpoint. The following two samples (A and B) may be cited to illustrate this point.

Date.	Samples.	Chemical examination.				Bacteriological examination.	
		Specific gravity at 60°F.	Total Solids per cent.	Fat per cent.	Solids not fat per cent.	Mic. per c. c.	Lactose fermenters present in
23rd July 1913 ...	'A'.	1030	17·14	6·5	11·14	47,100,000	·000001 c.c. and more.
6th August 1913 ...	'B'.	1026	15·44	6·4	9·04	52,850,000	·000001 c.c. and more.
						(B. Coli-like organisms present in both.)	

Both the samples are *genuine* from a chemical point of view. Bacteriological examination shows, however, a very high count, presence of lactose fermenters in 0·000001 c. c. and more and the presence of B. Coli-like organisms. Surely such samples cannot be considered harmless specially for the tender gastro-intestinal mucous membrane of an infant.

Space will not permit me to discuss the other results. The practical importance of Bacteriological examination of milk is excellently summed up by Rosenau: "The activities of our Health Officers were at first directed almost exclusively to the prevention of sophistication of milk, detected by Chemical methods, to the neglect of the valuable information obtained from bacterial examination. The addition of water to milk and the extraction of cream are fraudulent practices, but, as a rule, have only a secondary bearing upon the public health. The bacteriological examination of milk gives us a clue to the cleanliness of the methods employed, the temperature, and the age of the milk. The Health Officer who has the advantage of bacteriological assistance knows that the milk of dairies containing excessive numbers of bacteria is dirty, old, or warm. With a bacteriological count as a guide, it is comparatively easy to determine the cause of the trouble and to institute proper means to correct it. The enumeration of bacteria in milk is, therefore, one of the readiest and cheapest methods at the disposal of Health Officers to determine the general sanitary quality of the market milk supply." Dr. Eastwood, in his Report to the Local Government Board (1909) says "Routine bacteriological examination of samples for the guidance of the milk inspection service, are valuable, and should be adopted. They afford the most reliable, the cheapest, and often the quickest means of discovering when milk has been improperly handled."

Tuberculosis.—The only question remaining to be considered now is, *are Tubercle bacilli conveyed by milk in India?*

There are hardly any statistics available in India with regard to the prevalence of Tuberculosis in milch cattle. No systematic investigation seems to have been made as yet, but judging from the reports of the Chief Veterinary Inspector of Bombay and others, it appears that Indian cattle rarely suffer from Tuberculosis. If this is so, it may be partly ascribed to the fact that in India, cattle are allowed to graze out in the open all the year round (excepting in large cities) and live an outdoor life to a great extent than in England or in America.

Tubercle Bacilli in Milk.—The following figures will show the frequency with which Tubercle bacilli have been found in milk in English and American Cities:—

Cities.	No. of samples examined.	Percentage containing Tubercle bacilli.	§ Investigator or Authority.
London (1908)	...	11·6	William G. Savage.
Manchester (1908)	...	8·28	William G. Savage.
New York (1910)	107	16·0	Hess.
Chicago (1910)	144	10·5	Tonney.
Washington (1906)	233	6·7	Anderson.

A systematic examination of Bombay milk for B. Tuberculosis was made by me during four years (1910-1913 inclusive). The total number of the samples examined were 741. 48 samples or 6·49 showed the presence of *Acid fat bacilli* but *in not a single sample tubercle bacilli could be demonstrated by animal experiments.* These results have been confirmed independently by those at the Bombay Bacteriological Laboratory, Parel, where 100 samples of cow's milk were recently examined for tubercle bacilli, but *in no instance did the guinea*

§ Quoted by Rosenau.

pigs develop Tuberculosis. Further investigation in other Cities of India is necessary before drawing final conclusions, but so far as our present knowledge goes, it may be concluded that *in India tubercle bacilli are rarely, if at all, conveyed by milk.*

Chemical Examination of Milk.

It is well-known that the chemical composition of milk in India differs in many respects from that of Europe and America. This is largely due to the fact that in India one has to deal with buffaloes' milk as well as cows.' The former shows a higher percentage of proteids and fats than the latter. Buffaloes' milk was first examined by F. Strohmer in 1888. In 1890, Peppel and Richmond investigated the milk of the "Gamoose" in Egypt. Indian buffaloes' milk was examined by Leather in 1907 and by Meggit and Mann in 1907-1908. At the Municipal Laboratory, Bombay, the chemical examination of milk dates back to 1903. A special investigation was carried on here during 1905-1910. The most recent work of reference published in India on this subject is the paper in two parts by Mr. A. A. Meggit and Dr. H. H. Mann in the "Memoirs of the Department of Agriculture in India," Vol. II, Nos. 1 and 4.

Average Composition of Indian Buffaloes' Milk.

The following figures are for Poona and Bombay:—

Complete Analysis of Indian Buffaloes' Milk.

TABLE A.

	Specific gravity at 15·5° C.	Solids not fat per cent.	Water per cent.	Fat per cent.	Proteids per cent.	Milk Sugar per cent.	Mineral matter per cent.
1. Poona (Kirkee)	1032·1	9·69	82·22	8·09	4·34	4·56	·76
§ (Leather.)							
2. Bombay (50 samples.) (Municipal Analyst.)	1031·5	9·3	82·5	8·2	4·0	4·9	·8

For a routine examination of milk, the only constituents that need to be estimated are *Specific Gravity* (usually at 15·5° C. or 60° F).

Fat and *Total solids*—"*Solids not fat*" being obtained by deducting the figures for *Fat* from *Total Solids*. Great variations have been found depending on various factors, such as age and breed of the animal, the kind of feed, time of calving, season &c. It appears, for instance, that the amount of milk given by the "Delhi" and "Jafferabadi" buffaloes is usually more than that of the "Surati" buffaloes. The milk of the latter breed, however, is found to be much richer in fat than the others. It is a matter of common experience that *Food* rich in proteids and fat will yield milk of a superior quality. This is why cotton seeds, *Chuni* (husk of Cajanus Indicus) and oil-cakes form a part of the daily ration of the milch cattle in Bombay. The kind of food given is just as important as the breed of the animal. Take, for instance, a fine "Sindhi" cow with full udders &c., and feed it on food poor in fat and nitrogenous matter, the milk will remain poor in quality in spite of the good breed.

271 samples of "genuine" buffaloes' milk examined from time to time at the Bombay Municipal Laboratory gave the following figures:—

TABLE B.

Average composition of genuine buffaloes' milk in Bombay.

No. of samples examined.		Specific gravity at 60° F.	Total Solids per cent.	Fat per cent.	Solids not fat per cent.
January	31	1,029·41	17·76	8·21	9·55
February	30	1,029·79	17·35	7·7	9·65
March	9	1,028·83	16·94	7·11	9·83
April	20	1,029·06	17·37	7·57	9·80
May	26	1,929·36	16·96	8·15	8·81
June	22	1,028·62	17·45	7·81	9·64
July	33	1,028·58	17·50	7·64	9·86
August	30	1,027·41	17·73	8·06	9·67
September	13	1,028·18	16·75	7·33	9·42
October	17	1,028·07	17·04	7·41	9·63
November	24	1,029·30	16·57	7·26	9·31
December	16	1,029·77	16·94	7·22	9·72
Total...	271	1,028·86	17·11	7·62	9·57

§ Quoted by Meggit and Mann.

The average figures then, for "mixed" buffaloes' milk in Bombay as judged from the analysis of 271 genuine samples are 7·62 per cent. of *fat* and 9·57 per cent. of "*solids not fat.*" Meggit and Mann from an analysis of 155 samples in Poona found the percentage of fat to vary from 7·06 to 7·92 for "morning" and "evening" milk respectively. In another series of milk analysis (which is still going on at the moment of writing) I found the figure for fat in the milk of some buffaloes, to be as low as 5·5 per cent.; but never below that point. The "*solids not fat*" were found to vary from 9 to 10 per cent., but very rarely below 9 per cent.

Average composition of Indian Cows' Milk.

The following analytical figures are from twenty-one samples of cows' milk which were collected by the Chief Veterinary Inspector of Bombay and certified by him to be "genuine." They were examined at the Municipal Laboratory as usual.

TABLE C.

Analysis of 21 samples of cows milk known to be genuine (from the Chief Veterinary Inspector, Bombay):—

No.	Date.	Specific gravity at 60° F.	Total Solids per cent.	Fat per cent.	Solids not fat per cent.
1	25th June 1913	1,026·6	13·86	5·0	8·16
2	Do.	1,027·3	14·86	5·5	9·36
3	Do.	1,027·9	14·46	5·2	9·26
4	Do.	1,028·7	16·0	6·3	9·7
5	21st August 1913	1,034	13·14	4·1	9·04
6	Do.	1,033	13·26	4·7	8·56
7	Do.	1,033	14·12	5·1	9·02
8	27th August 1913	1,036	12·51	3·0	9·51
9	Do.	1,032	13·86	5·0	8·86
10	Do.	1,034	13·45	4·2	9·25
11	Do.	1,033	13·45	5·1	8·35
12	Do.	1,032	13·21	4·4	8·81
13	5th September 1913	1,031	13·36	4·6	8·76
14	Do.	1,033	14·88	5·4	9·48
15	Do.	1,032	14·73	5·3	9·43
16	Do.	1,031	13·96	5·3	9·66
17	25th September 1913	1,031	13·16	4·6	8·56
18	Do.	1,030	14·6	5·8	8·8
19	Do.	1,030	14·24	5·6	8·74
20	26th September 1913	1,030	14·96	6·1	8·86
21	Do.	1,030	15·08	6·2	8·88
	Average of 21 samples	1031	13·99	5·0	8·9

The percentage of *fat* was found to vary between 4·5 and 5·5, the average being 5 only in one case (sample No. 8) it was found to be as low as 3 per cent. The average percentage

of fat in 156 samples of cows' milk in Poona was found to vary from 4·52 to 5·34 for morning and evening milk, respectively (Meggit and Mann). It is rare to find fat below 4 per cent. in genuine milk of Indian cows. The "*Solids not fat*" ranged from 8·5 per cent. to 9·5 per cent., the *average being* 8·9 per cent. or in round numbers 9 per cent. In very rare cases the percentage was below 8·5 per cent. which may be taken as the lowest limit.

A word may be now said regarding *Adulteration of Milk in Bombay.* It is a notorious fact that the extent of adulteration of milk in Indian cities is far more than in European or American cities. Out of a total of *1,363 samples* of milk examined at the Bombay Municipal Laboratory, during a period of five years, *only 282* were found to be *genuine.* This gives 1,081 or *79·3* per cent. for *adulterated* or watered samples of milk in Bombay. In Poona, Dr. H. H. Mann found *80 per cent.* of the milk to be adulterated with water.

The following Tables indicate the amount of adulteration with water in milk sample collected at random from different parts of the City

TABLE D.

Adulteration of Bombay Milk—Samples of Class III.

(According to different Wards.)

Ward.	No. examined.	No. of genuine samples.	No. of samples *not genuine.*	Percentage of samples which showed adulteration with water.	Remarks.
A	11	3	8	72·7 per cent.	F Ward shows the greatest amount of adulteration (81·8 per cent.) and G Ward shows the least (8·3 per cent.) which is exceptionally low (? doubtful).
B	9	4	5	55·5 per cent.	
C	12	6	6	50·0 per cent.	
D	18	5	13	72·2 per cent.	
E	22	14	8	63·6 per cent.	
F	11	2	9	81·8 per cent.	
G	12	11	1	8·3 per cent.	

TABLE E.

Adulteration of Bombay Milk with water showing the amount of water added.

Date.	Ward.	No.	Percentage of *added* water.	Price per Seer.
				Rs. a. p.
2nd July 1913...	A	1088	32·2	Not known.
Do.	A	1090	35·1	Not known.
Do.	A	1091	57·3	Not known.
Do.	A	1092	35·5	Not known.
8th October 1913	A	1728	9·3	0 3 0
Do.	A	1730	44·2	0 2 6
Do.	A	1731	32·4	0 2 0
Do.	A	1732	45·8	0 2 0
9th July 1913...	B	1145	32·4	Not known.
Do.	B	1146	22·6	Not known.
15th October 1913	B	1773	20·7	0 2 0
Do.	B	1776	18·0	0 3 0
16th July 1913...	C	1194	19·1	Not known.
22nd October 1913	C	1827	26·0	0 3 0
Do.	C	1828	9·0	0 3 0
Do.	C	1830	16·4	0 3 0
Do.	C	1831	28·2	0 3 0
Do.	C	1832	20·0	0 3 0
23rd July 1913	D	1237	57·7	Not known.
Do.	D	1238	31·1	Not known.
Do.	D	1242	11·1	Not known.
5th November 1913	D	1887	17·8	0 3 0
Do.	D	1888	36·4	0 2 6
Do.	D	1889	45·0	0 2 0
Do.	D	1890	6·0	0 3 0
Do.	D	1891	25·8	0 2 6
Do.	D	1892	11·4	0 3 0
30th July 1913	E	1277	55·5	Not known.
Do.	E	1278	11·1	Not known.
Do.	E	1279	32·2	Not known.

TABLE E—*continued.*

Date.	Ward.	No.	Percentage of *added* water.	Rate per Seer.
				Rs. a. p.
30th July 1913	E	1280	35·5	Not known.
Do.	E	1281	61·1	Not known.
12th November 1913	E	1925	21·5	0 4 0
13th November 1913	E	1935	27·3	0 3 0
Do.	E	1937	27·0	0 3 0
6th August 1913	F	1328	44·2	Not known.
Do.	F	1330	37·1	Not known.
Do.	F	1331	53·1	Not known.
Do.	F	1332	34·6	Not known.
19th November 1913	F	1970	37·1	0 2 6
Do.	F	1971	44·5	0 3 0
Do.	F	1972	23·1	0 3 0
Do.	F	1973	20·5	0 3 0
Do.	F	1975	28·5	0 2 6
13th August 1913	G	1376	81·1	Not known.

TABLE F

To show that Adulteration of Milk varies according to the price charged.

	Price per seer (Bombay Seer).			
	Rs. a. p. 0 2 0	Rs. a. p. 0 2 6	Rs. a. p. 0 3 0	Rs. a. p. 0 4 0
Total number of samples bought	4	6	26	5
Adulterated samples	4	5	15	Nil.
Percentage of adulterated samples	100	83·3	57.6	Nil.
Average of water added for 100 parts of pure milk ...	37·4	34·4	20·3	.....
Largest amount of added water known so far was 81·1 per cent. in a sample, the price of which is not known	.....	.....	.....	.....

Genuine milk may be bought in Bombay for 4 annas a seer (=24 ozs.). At 3 annas per seer only 42·4 per cent. or considerably less than half the samples have been found to be genuine; at 2½ annas per seer a very small proportion (16·7 per cent.) was found to be genuine and hence there is very little likelihood of getting genuine milk at this rate, whereas at 2 annas per seer it is impossible to get genuine milk in Bombay.

Milk Standards for India.

From what has been said above regarding the difference in composition, etc., between milk in India and milk in Europe and America, it is quite evident that European or American Standards for milk cannot hold good for India. We shall first consider the *Chemical Standard.*

The following standard is based on the analytical results of several hundred samples of genuine milk, obtained from different breeds of animals and collected under the most varying conditions. For a routine examination, the figures for *fat and "Solids not fat"* are all that is necessary to form an opinion about the genuineness of any milk sample.

Proposed Milk Standard for India. (Chemical.)

	Fat per cent.		Solids, not fat, per cent.	
	Average.	Lowest limit.	Average.	Lowest limit.
Buffaloes' Milk	6 to 7	5	9·5	9
Cows' Milk...	4 to 5	3·5	9	8·5

Bacterial Standard.

The practical importance of a routine bacteriological examination of milk has been already emphasized. The first attempt to adopt a bacterial standard was made by the New York Board of Health in 1900. According to this, no milk was allowed to be sold in New

York, which contained over 1,000,000 bacteria per c. c. This had to be considerably modified later. Boston has a *legal standard* of 500,000 microbes per c. c. According to Rosenau, the number of bacteria per c. c. in milk should never exceed 100,000. It must be remembered that conditions in America are quite different from those obtained in India, and if a standard is to be adopted for India, this should be done with due regard particularly to (1) local conditions of collection and distribution of milk, (2) *temperature* at which the milk is held, and (3) *time* elapsing between milking and consumption. In the United States of America the authorities insist on the milk-sellers keeping their milk at a temperature not exceeding 50° F. This is impossible in India for obvious reasons. Further research is necessary before setting up a fixed bacterial standard for India. In the meantime, in the light of the foregoing results, it is suggested that a *tentative* standard of 5,000,000 *microbes per c. c.* may be adopted as a guide for administrative work.

Summary and Conclusions.

1. The milk problem in India is most difficult and perplexing. It needs for its proper solution the effective co-operation of the scientist, the practical sanitarian, the economist and the legislator.

2. The milk-supply in Bombay is partly from the dairies, milk-shops and the individual milk-vendors in the City, and partly from the suburbs in Salsette.

3. There are 48 dairies and 83 licensed milch cattle stables in Bombay. The number of cows and she-buffaloes in the City is estimated at about 19,000, the majority (over 17,000) being buffaloes. No statistics are available about the milk-supply from the suburbs.

4. The various factors affecting the Chemical and Bacterial contents of Bombay milk are :—

(*a*) *Climatic influences, e.g.* temperature, humidity, etc.

(*b*) *Factors relating to the milch cattle, e.g.*, the breed and age of the animal, time of calving, the kind of fodder, conditions of the stables, disease of the animals, etc.

(*c*) *Conditions ascribed to the Gowlees or milk-men, e.g.*, undesirable customs, filthy habits of life, objectionable methods of milking and of transporting the milk, communicable diseases, *e.g.*, Tuberculosis.

5. *Three classes* of milk samples were examined in Bombay :—

Class I.—Samples collected at the Municipal Laboratory under the strictest supervision and examined immediately.

Class II.—Samples collected with ordinary sanitary precautions and examined after three or four hours.

Class III.—Samples collected at random, and examined after six or nine hours.

6. The Bacteriological examination showed widely different results according to (*a*) *conditions of collection and transportation*, (*b*) *temperature* at which the milk samples were held, and (*c*) *time* elapsing between milking and examination of the samples at the Municipal Laboratory.

7. The figures for microbes per c.c. and lactose fermenting organisms of the B. Coli type indicate *a high degree of manurial or other undesirable pollution of the Bombay Milk Supply as* judged from samples of Class II and Class III.

8. The results obtained from samples of Class I demonstrate that it is *quite possible to get the purest milk in Bombay,* provided that proper precautions are taken regarding milking, etc.

9. The results of Bacterial examination of samples of Class II indicate that with ordinary precautions, a great deal of the manurial and other objectionable contamination can be avoided.

10. *Tuberculosis.*—Out of 741 samples of milk examined, not a single sample showed genuine Tubercle bacilli, from which it may be concluded that *Tuberculosis is rarely, if at all conveyed by milk in India.*

11. *Much valuable information can be obtained from a bacterial examination of milk.*—This is of practical importance to the Health Officer, as it affords the cheapest and most reliable means of finding out any contamination of milk.

12. The chemical composition of milk in India differs to a great extent from that in Europe or America. Buffaloes' milk, which is largely used here, is richer in fat and proteids than cows' milk abroad.

13. *The adulteration of milk with water* has reached a *scandalous point in Bombay,* the percentage of adulteration being nearly eighty (80)—that is, *four-fifths of the milk supplied to Bombay is adulterated with water.*

14. The amount of water added bears an inverse ratio to the price charged for milk, *e. g.*, the lower the price, the greater the adulteration proportionately and *vice versa.*

15. *Milk Standards for India* are essential. They must be necessarily different from those for Europe and America.

16. *The following chemical standard* is proposed for cows' and buffaloes' milk in India :—

The *cows' milk* should be considered genuine if it contains at least 3·5 per cent. of fat and at least 8·5 per cent. solids other than fat. *Buffaloes' milk* should be considered genuine if it contains not less than 5 per cent. fat and at least 9 per cent. solids other than fat. This must be *legalised* if an efficient control is desired.

17. *A bacterial milk standard* for India is desirable. This should not be legalised until more work is done on the bacteriology of milk in India. A tentative standard, however, is suggested for the present as a guide for administrative work.

18. It is evident from the present investigation that *Bombay milk shows an extremely high degree of adulteration and a most objectionable bacterial pollution.*

19. It is highly satisfactory to note that in connection with milk legislation, the Government of Bombay have recently passed Act VI of 1913, certain sections of which provide for the sanitary and legislative control of the Bombay Milk Supply.

20. Besides legislation, *other remedies* are necessary for improving the milk supply of Indian cities. Among these, the following are suggested :—

(*a*) An improved and efficient system of inspection of dairies and of milch cattle and stables, etc.

(*b*) Improvement in the proper management and care of the milch cattle. This includes better breeding and housing, provision of cheap and proper fodder, etc.

(*c*) *Education* of the milk-men and other milk-dealers regarding sanitary methods of collection and distribution of milk, personal hygiene, etc.

(*d*) The adoption of artificial methods for purifying and preserving milk, *e. g.*, Pasteurisation, boiling and sterilisation.

(*e*) The establishment of model milk farms in the suburbs of large cities, and

(*f*) The use of modern methods of transportation of milk from producer to consumer, *e. g.*, milk trains, motor-waggons, etc.

OBSERVATIONS ON LACTOSE FERMENTERS IN THE DRINKING WATERS OF BOMBAY.

This was a continuation of the work undertaken since May 1912, and a full discussion will be made after completion of this work in May 1914. In the meantime, the results arrived at during 1913 are tabulated below:—

No.	Date.	Place of collection.	5cc	1cc	0.1cc	0.01cc.
	1913.					
1	6th January	Filtered Tulsi water taken from Malabar Hill. Filter No. 4	+	+	+	
2	20th January	" No. 4	+	+	+	
3	3rd February	" No. 1	+	—	—	
4	17th February	" No. 1	—	—	—	
5	3rd March	" No. 4	+	+	—	
6	17th March	" No. 3	—	—	—	
7	7th April	" No. 5	+	—	—	
8	21st April	" No. 6	—	—	—	
9	5th May	" No. 7	+	+	—	
10	19th May	" No. 7	+	—	+	
11	2nd June	" No. 5	+	+	+	
12	16th June	" No. 1	+	+	+	—
13	7th July	" No. 7	+	—	—	—
14	21st July	" No. 7	+	—	—	—
15	4th August	" No. 5	+	+	+	—
16	18th August	" No. 7	—	—	—	—
17	1st September	" No. 7	—	—	—	—
18	15th September	" No. 7	+	—	—	—
19	6th October	" No. 7	+	+	+	—
20	20th October	" No. 7	+	+	—	—
21	3rd November	" No. 6	+	+	—	—
22	17th November... ...	" No. 5	+	+	—	—
23	1st December	" No. 5	+	+	—	—
24	15th December... ...	" No. 6	+	+	—	—

+ = Present. — = Absent.

OBSERVATIONS ON LACTOSE FERMENTERS IN THE DRINKING WATERS OF BOMBAY—*contd.*

No.	Date.	Place of collection.	5 cc.	1 cc.	0·1 cc.	0·01 cc.
	1913.					
25	6th January ...	Unfiltered Tulsi Water taken from the receiving well at Malabar Hill.	+	+	+	...
26	20th January ...		+	+	+	...
27	3rd February ...		—	—	—	...
28	17th February ...		+	—	—	...
29	3rd March		—	—	—	...
30	17th March		—	—	—	...
31	7th April		+	—	—	...
32	21st April		+	—	—	...
33	5th May		+	+	+	...
34	19th May		+	+	—	...
35	2nd June		+	+	—	...
36	16th June		+	+	+	—
37	7th July		+	+	—	—
38	21st July		+	+	+	—
39	4th August		+	+	+	—
40	18th August ...		+	+	—	—
41	1st September ...		+	+	—	—
42	15th September ...		+	+	+	—
43	6th October		+	—	—	—
44	20th October ...		+	—	—	—
45	3rd November ...		+	—	—	...
46	17th November ...		+	+	—	...
47	1st December ...		+	+	—	...
48	15th December ...		—	—	—	...
49	6th January ...	Mixed Tulsi Filtered and Tansa Unfiltered Water taken from the tap behind the sluice house at Malabar Hill.	+	+	—	...
50	20th January ...		+	+	—	...
51	3rd February ...		+	+	+	...
52	17th February ...		+	+	+	...
53	3rd March		+	+	+	...
54	17th March		+	+	+	...
55	7th April		+	+	—	...
56	21st April		+	+	—	...
57	5th May		+	+	+	...
58	19th May		+	+	+	...
59	2nd June		+	+	+	...
60	16th June		+	+	+	—
61	7th July		+	+	+	—
62	21st July		+	+	+	—
63	4th August		+	+	—	—
64	18th August		+	+	+	—
65	1st September ...		+	+	+	—
66	15th September ...		+	+	+	—
67	6th October		+	+	+	—
68	20th October ...		+	+	+	—
69	3rd November ...		+	+	+	—
70	17th November ...		+	+	+	—
71	1st December ...		+	+	+	—
72	15th December ...		+	+	—	—

+ = Present. — = Absent.

OBSERVATIONS ON LACTOSE FERMENTERS IN THE DRINKING WATERS OF BOMBAY—*contd.*

No.	Date.	Place of Collection.	5 cc.	1 cc.	0·1 cc.	0·01 cc.
	1913.					
73	6th January... ...	Tansa Water taken from the public stand pipe at the junction of D'Lisle Road and Arthur Road.	+	—	—	...
74	20th January ...		+	+	+	...
75	3rd February ...		+	+	+	...
76	17th February ...		+	+	+	...
77	3rd March		+	+	—	...
78	17th March		+	+	+	...
79	7th April		+	+	—	...
80	21st April		+	+	+	...
81	5th May		+	+	—	...
82	19th May		+	+	+	...
83	2nd June		+	+	+	...
84	16th June		+	+	+	+
85	7th July		+	+	+	+
86	21st July		+	+	+	+
87	4th August		+	+	+	—
88	18th August ...		+	+	+	—
89	1st September ...		+	+	+	—
90	15th September ...		+	+	+	—
91	6th October		+	+	+	—
92	20th October ...		+	+	+	—
93	3rd November ...		+	+	+	—
94	17th November ...		+	+	+	—
95	1st December ...		+	+	+	—
96	15th December ...		+	+	+	—
97	6th January... ...	Tansa Water drawn from the 48" air valve near Chinchpoogli Station.	+	+	+	...
98	20th January ...		+	+	+	...
99	3rd February... ...		+	+	+	...
100	17th February ...		+	+	+	...
101	3rd March		+	+	+	...
102	17th March		+	+	+	...
103	7th April		+	+	—	...
104	21st April		+	+	+	...
105	5th May		+	+	+	...
106	9th May		+	+	+	...
107	2nd June		+	+	+	...
108	16th June		+	+	+	+
109	7th July		+	+	+	+
110	21st July		+	+	+	+
111	4th August		+	+	+	—
112	18th August... ...		+	+	+	—
113	1st September ...		+	+	+	—
114	15th September ...		+	+	+	—
115	6th October		+	+	+	—
116	20th October ...		+	+	+	—
117	3rd November ...		+	+	+	—
118	17th November ...		+	+	+	...
119	1st December ...		+	+	+	...
120	15th December ...		+	+	+	...

+ = Present. — = Absent.

OBSERVATIONS ON LACTOSE FERMENTERS IN THE DRINKING WATERS OF BOMBAY—*contd.*

No.	Date.	Place of collection.	5 cc.	1 cc.	0·1 cc.	0·01 cc.
	1913.					
121	6th January ...	Filtered Vehar Water taken at Bhandarwada Reservoir of :— Filter No. 8 ...	+	+	—	...
122	20th January ...	„ „ 5 ...	+	+	—	..
123	3rd February ...	„ „ 7 ...	—	—	—	..
124	17th February ...	„ „ 8 ...	+	+	+	..
125	3rd March	„ „ 7 ...	—	—	—	...
126	17th March	„ „ 1 ...	—	—	—	..
127	7th April	„ „ 1 ...	+	+	—	...
128	21st April	„ „ 3 ...	+	—	—	...
129	5th May	„ „ 4 ...	+	+	—	...
130	19th May	„ „ 5 ...	+	—	—	...
131	2nd June	„ „ 7 ...	+	+	+	...
132	16th June	„ „ 9 ...	+	+	+	+
133	7th July	„ „ 1 ...	+	+	+	—
134	21st July	„ „ 2 ...	+	+	+	—
135	4th August	„ „ 3 ...	+	+	+	—
136	18th August... ...	„ „ 4 ...	+	—	—	—
137	1st September ...	„ „ 8 ...	+	—	—	—
138	15th September ...	„ „ 7 ...	—	—	—	—
139	6th October	„ „ 5 ...	+	—	—	—
140	20th October ...	„ „ 7 ...	+	—	—	—
141	3rd November ...	„ „ 3 ...	—	—	—	—
142	17th November ...	„ „ 9 ...	+	+	+	—
143	1st December ...	„ „ 9 ...	+	+	—	—
144	15th December ...	„ „ 1 ...	+	+	+	—
145	6th January	Unfiltered Vehar Water taken from the inlet channel at Bhandarwada Reservoir.	+	+	+	...
146	20th January ...		+	+	+	...
147	3rd February ...		+	+	—	...
148	17th February ...		—	—	—	...
149	3rd March		—	—	—	...
150	17th March		+	—	—	...
151	7th April		+	—	—	...
152	21st April		+	+	—	...
153	5th May		+	—	—	...
154	19th May		+	—	—	...
155	2nd June		+	+	+	...
156	16th June		+	+	—	—
157	7th July		+	+	—	—
158	21st July		+	+	+	—
159	4th August		+	+	+	—
160	18th August... ...		+	+	—	—
161	1st September ...		+	+	—	—
162	15th September ...		+	+	+	—
163	6th October		—	—	—	—
164	20th October ...		+	—	—	—
165	3rd November ...		+	+	—	—
166	17th November ...		+	+	+	—
167	1st December ...		+	—	—	—
168	15th December ...		+	—	—	—

+ = Present. — = Absent.

OBSERVATIONS ON LACTOSE FERMENTERS IN THE DRINKING WATERS OF BOMBAY—*contd.*

No.	Date.	Place of collection.	5 c. c.	1 c. c.	0·1 c. c.	0·01 c. c.
	1913.					
169	6th January... ...	Taken from Stand-pipe at Dongri Street.	+	+	+	...
170	20th January ...		+	+	+	...
171	3rd February ...		+	+	+	...
172	17th February ...		+	+	+	...
173	3rd March		+	+	+	...
174	17th March		+	+	+	...
175	7th April		+	+	—	...
176	21st April		+	+	+	...
177	5th May		+	+	+	...
178	19th May		+	—	—	...
179	2nd June		+	+	+	...
180	16th June		+	+	+	+
181	7th July		+	+	—	—
182	21st July		+	+	—	—
183	4th August		+	+	+	—
184	18th August... ...		+	+	+	—
185	1st September ...		+	+	—	—
186	15th September ...		+	—	—	—
187	6th October		+	+	+	—
188	20th October ...		+	+	+	—
189	3rd November ...		+	+	+	+
190	17th November ...		+	+	—	—
191	1st December ...		+	+	+	—
192	15th December ...		+	+	+	—

+ = Present. — = Absent.

Taking these figures along with those given in my Annual Report for 1912, it will be noticed that most of the waters show great variation from time to time. There is a striking difference between the figures obtained during the dry season and those during the rains. Taking first the results of the first 12 months in filtered waters we find the following :—

I.—Filtered Tulsi Water from Malabar Hill Reservoir.

From middle of June to about the middle of September Lactose Fermenters were found to be present in 1 cc. and more. This period corresponds to monsoon conditions. From the third week of September 1912 to the end of May 1913, in the majority of samples examined, Lactose Fermenters were not found 1 cc. and less. They were, however, found to be present in 5 cc. and more on 11 occasions out of 17.

II.—*Filtered Vehar Water from Bhandarwada Reservoir.*

Lactose Fermenters were found to be present in 1 cc. and more from June to the beginning of October (excepting on one single occasion 9th September 1912), while from the third week of October 1912 to the end of May, in a total of 15 observations, they were not present on 8 occasions in 1 cc. of the sample.

The above results would indicate that during the dry season (October to May) in the majority of the samples of filtered waters, Lactose Fermenters are practically absent in 1 cc. and less. They were also found to be absent in 5 cc. on several occasions. During the rainy season (June to September) they were found to be present in 1 cc. and up. It would be reasonable to expect, therefore, *the absence of Lactose Fermenters in 5 cc. of the filtered waters of Bombay* during the dry season. They may be allowed in 5 cc. of the filtered waters during the rainy season, but should always be absent in 1 cc. and less.

The standards proposed by Major Clemesha are higher, but with due regard to local conditions, the above may be adopted as a *provisional standard*, as it is based upon observations extending over a period of 12 months. It may serve as an index of the efficient working of a filter at any given time. The samples of unfiltered waters show great variation except in the case of Tansa water which almost constantly shows the presence of Lactose Fermenters in 0·1 cc. and more during all seasons.

During the following period of six months (July to December 1913) out of 12 samples of Filtered Tulsi water only 2 samples did not show any Lactose Fermenters in 5 cc. and less of water. Filtered Vehar water also showed the absence of Lactose Fermenters in 5 cc. in 2 samples only.

III.—The extent of adulteration of Sweet Oil with Mineral Oil in Bombay.

In order to find out the extent to which a mixture of white oil and sweet oil would affect the analytical figures of several samples were mixed in the following proportions and results noted :—

1.	Sweet Oil, 50 per cent.	White Oil, 50 per cent.
2.	„ 60 „	„ 40 „
3.	„ 70 „	„ 30 „
4.	„ 80 „	„ 20 „
5.	„ 90 „	„ 10 „
6.	„ 95 „	„ 5 „

This served as a guide for the systematic examination of sweet oil as sold in Bombay. The percentage of unsaponifiable matter found in these mixtures corresponded very closely to the amount of white oil added. The total number of samples specially examined, during the period, was 12, out of which only one sample showed adulteration to the extent of 11 per cent. with mineral oil as can be seen from the following :—

Ward.	No.	Source obtained.	Opinion.
A	1	Shop at 326 Bora Bazar Street	Genuine, but rather stale and rancid.
	2	„ 270 „ „	„ „ „ „
B	3	„ 120 Memanwada Road	Genuine.
	4	„ 375 Jail Road, East	*Not genuine but adulterated with about 11 per cent of mineral oil.*
C	5	„ 125 Falkland Road	Genuine.
	6	„ 25 II Carpenter Street	Genuine, but somewhat stale.
	7	„ 216 Falkland Road	„ „ „ acid and stale.
D	8	„ 23 Khetwadi Back Road	Genuine.
	9	„ 42 Khetwadi	Genuine but stale.
	10	„ 547 Duncan Road Cross Lane ...	„ „ somewhat stale.
E	11	„ 509 to 511 Duncan Road	„ and in very good condition.
	12	„ 144 Haines Road	„ „ „ fairly good condition.

The temporary extension of the Laboratory was completed in the early part of the year. This has given us the additional space which was required so badly for milk and other work.

It will be seen that there has been an enormous increase in the work of the Laboratory. The total number of samples examined by far exceeds that of any previous year and the year *1913* is easily a *record year* in the history of the Municipal Laboratory, Bombay. The following figures speak for themselves :—

In the year	1908,	3,754 samples were examined.
„	1909,	5,089 „ „
„	1910,	4,502 „ „
„	1911,	5,198 „ „
„	1912,	5,675 „ „
„	1913,	7,966 „ „

The increase is mainly due to original Research work particularly in connection with the milk supply of Bombay, the summary and practical conclusions of which are mentioned on page 82.

I am glad to record my satisfaction at the excellent work done by the whole Laboratory staff in spite of the increased demand on their time and energy. The pressure of work has been particularly heavy on the two Laboratory Assistants, Messrs. Gupte and Pansare, without whose ready help it would not have been possible to accomplish so much of useful Research work.

I have the honour to be,

Sir,

Your most obedient servant,

LEMUEL LUCAS JOSHI, M.D., B.SC., D.T.M.,

Municipal Analyst.

MUNICIPAL LABORATORY,
February 24th, 1914.

APPENDIX I.

STATEMENT SHOWING THE NUMBER OF ARTICLES EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913.

Received from	Well Water.	Tank Water.	Bombay Waters.	Aerated Water.	Cistern Waters.	Water.	River Water.	Milk.	Butter.	Ghee.	Imitation Ghee.	Vegetable Ghee.	Condensed Milk.	Oil.	Cotton Seed Oil.	Vinegar.	Tea.	Coffee.	Flour.	Biscuits.	Tinned Fish.	"Asparagus Tip."	Fat.	Sulphur.	Hydrochloric Acid.	Perchloride of Mercury.	Spirit of Turpentine.	Tinning Ribbon.	Lime.	Renal Calculus.	Urine.	Total.
Executive Health Officer	..	..	1	1	1	..	..	..	..	..	..	..	4	3	..	..	..	..	..	..	..	1	..	2	1	..	..	1	..	..	..	15
Municipal Analyst and Hydraulic Engineer	..	..	273	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	..	278
Malaria A Ward	264	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	264
,, B ,, ...	101	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	101
,, C ,, ...	180	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	180
,, D ,, ...	173	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	174
,, E ,, ...	212	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	217
,, F ,, ...	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4
,, G ,, ...	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
Dy. Health Officer, A	..	..	..	..	..	..	..	12	..	..	..	1	..	11	1	..	5	3	22	..	2	..	..	..	..	..	..	..	..	..	..	57
,, B	..	..	..	..	..	..	..	9	..	..	1	..	..	3	..	..	..	..	3	..	..	..	2	..	..	..	..	..	..	..	..	..	47
,, C	..	..	..	..	..	..	..	13	..	2	..	..	..	2	1	..	2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	21
,, D	..	..	5	1	..	..	..	28	3	1	..	..	..	4	..	..	2	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	48
,, E	3	1	..	..	..	..	..	13	..	2	..	..	..	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23
,, F	7	1	..	..	..	..	..	11	1	1	..	..	..	2	2	2	7	4	19	..	..	..	8	..	..	..	..	..	..	..	..	..	65
,, G	13	..	..	..	..	..	..	12	..	2	..	..	..	3	..	2	5	6	18	..	..	..	..	..	..	..	..	..	..	..	..	..	61
Municipal Storekeeper	..	..	..	..	..	..	..	..	..	..	..	..	..	37	..	..	..	..	..	..	..	..	..	1	2	1	1	..	..	..	..	42
Municipal Analyst and Chief Veterinary Inspector	..	..	..	..	..	..	..	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	56
Medical Officer, Arthur Road Hospital	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
,, ,, Maratha Hospital	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	3
Superintendent, Municipal Gardens	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
,, Licenses	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	3
Private	6	..	..	..	..	3	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	435	497
Total ..	969	8	279	2	1	3	1	154	4	8	1	1	4	69	5	4	21	15	93	1	2	1	12	3	3	1	1	1	5	1	457	2,103

APPENDIX II.

STATEMENT SHOWING THE NUMBER OF MILK SAMPLES EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913.

Received from	Genuine.	Doubtful Purity.	Good.	Not genuine.	Total.
Municipal Analyst and Veterinary Inspector	52	2	1	1	56
Deputy Health Officer, A Ward ...	3	1	...	8	12
Do. B „ ...	4	...	...	5	9
Do. C „ ...	6	...	...	7	13
Do. D „ ...	9	...	...	19	28
Do. E „ ...	4	...	...	9	13
Do. F „ ...	2	...	...	9	11
Do. G „ ...	10	1	...	1	12
Total... ...	90	4	1	59	154

Most of the above samples were known to be genuine at the time of collection.

APPENDIX III.

STATEMENT SHOWING THE NUMBER OF GHEE SAMPLES EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913.

Received from	Genuine.	Not genuine.	Total.
Deputy Health Officer, C Ward	1	1	2
Do. D „	1	...	1
Do. E „	1	1	2
Do. F „	...	1	1
Do. G „	...	2	2
Total	3	5	8

APPENDIX **IV**.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913.

No.	Received from	Situated at	Opinion as to potability from chemical examination.
1	Malaria Inpector, C Ward ...	386, (2) Girgaum Road	Unfit.
2	Do. do. C do. ...	216—218, Do. do.	
3	Do. do. C do. ...	3—4 Princess Street...	Fit.
4	Do. do. C do. ...	38, 3rd Bhoiwada Cross Lane	Unfit.
5	Do. do. C do. ...	3, Dadishet Agiari Street	Objectionable.
6	Do. do. C do. ...	174—176, Kalbadevi Road...	
7	Private	Karla Sanitarium	Fit.
8	Malaria Inspector, C Ward ...	7—8, Jagannanth Chall	Objectionable.
9	Do. do. C do. ...	21—23, 2nd Bhoiwada Lane	
10	Do. do. C do. ...	5, (9) Cawasji Patel Tank Road	Unfit.
11	Do. do. C do. ...	96, Dadishet Agiari Street	Objectionable.
12	Do. do. C do. ...	326, Lohar Street	Fit.
13	Do. do. C do. ...	59, Girgaum Back Road	Unfit.
14	Do. do. B do. ...	150, New Hanuman Lane	
15	Do do. C do. ...	411—413, Girgaum Road	Fair.
16	Do. do. C do. ...	471, Do. do.	Unfit.
17	Do. do. C do. ...	30—34, 2nd Marine Lines	
18	Do. do. C do. ...	45—47, Girgaum Road	
19	Do. do. C do. ...	74—76, 3rd Bhoiwada Lane	
20	Do. do. C do. ...	82-84, Dadi Shet Agiari Street	
21	Do. do. C do. ...	6, 1st Bhuleshwar Lane	
22	Do. do. C do. ...	36, 2nd Marine Lines	Objectionable.
23	Do. do. C do. ...	57—51, Girgaum Road	
24	Do. do. C do. ...	502, Patel Road	Unfit.
25	Do. do. C do. ...	128, Cavel Street	Objectionable.
26	Do. do. C do. ...	2—6, Sonapur 1st Cross Lane	Unfit.
27	Do. do. C do. ...	1—7, 1st Pathan Street	
28	Do. do. C do. ...	58, Cavel, Dhobi Talao	
29	Do. do. C do. ...	81, Trinity Street	Objectionable.
30	Do. do. C do. ...	58, 2nd Fanaswadi	Unfit.
31	Do. do. C do. ...	26—30, 3rd Marine Street	
32	Do. do. D do. ...	51, Pinjrapole Road	
33	Do. do. C do. ...	67—69, Dadishet Agiari Lane	
34	Do. do. C do. ...	2nd Khatarali	
35	Do. do. C do. ...	335—337, Girgaum Road	
36	Do. do. C do. ...	11—21, 2nd Dhobi Talao	
37	Do. do. C do. ...	198, Kika Street	
38	Do. do. B do. ...	1—33, Bori Masjid Gully.	
39	Do. do. C do. ...	18, Kumbhar Lane	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from			Situated at	Opinion as to potability from chemical examination.
40	Malaria Inspector,	C	Ward ...	24—26, 4th Marine Lines...	
41	Do.	do.	C do. ...	7—9, Do.	Unfit.
42	Do.	do.	C do. ...	12,—Cavel	
43	Do.	do.	C do. ...	51—57, Girgaum Road	Objectionable.
44	Do.	do.	C do. ...	2, 3ad, Dhobi Talao...	Unfit.
45	Deputy Health Officer,	G	Ward ...	Parsiwada open plot of ground	
46	Malaria Inspector,	C	Ward ...	11, Kumbhar Lane	
47	Do.	do.	C do. ...	3, Wellington Street	
48	Do.	do.	C do. ...	2, Fish Market Lane	Unfit.
49	Do.	do.	C do. ...	13, Chewoolwadi	
50	Do.	do.	C do. ...	6, Kolbhat Cross Lane	
51	Do.	do.	C do. ...	48, Cavel	
52	Do.	do.	C do. ...	401—403, Lohar Street	Objectionable.
53	Do.	do.	C do. ...	29, Wellington Street	Suspicious.
54	Do.	do.	C do. ...	377—381, Lohar Street	Unfit.
55	Do.	do.	C do. ...	7, Popat Wadi	Objectionable.
56	Do.	do.	C do. ...	33, Do.	
57	Do.	do.	C do. ...	2, 1st Kolbhat Lane...	
58	Do.	do.	C do. ...	388, Girgaum Road	
59	Do.	do.	C do. ...	27, Kolbhat Street	Unfit.
60	Do.	do.	C do. ...	42, Do.	
61	Do.	do.	C do. ...	376, Lohar Street	
62	Do.	do.	C do. ...	18, Ropa Lane	
63	Do.	do.	B do. ...	24, Tantanpura	Fair.
64	Do.	do.	C do. ...	543, Chunam Kiln Cross Lane	
65	Do.	do.	C do. ...	33, Kolbhat Street	
66	Do.	do.	C do. ...	113—114, Girgaum Road	
67	Do.	do.	C do. ...	5—6, 2nd Sonapur Cross Lane	
68	Do.	do.	C do. ...	2nd Sonapur Street	
69	Do.	do.	C do. ...	6, Chandanwadi	
70	Do.	do.	C do. ...	10, Sorab Santok Lane	
71	Do.	do.	C do. ...	8, Do.	
72	Do.	do.	C do. ...	29, Mahadeo S. Sett Street...	Unfit.
73	Do.	do.	C do. ...	21—23, Do.	
74	Do.	do.	C do. ...	2—8, Do.	
75	Do.	do.	C do. ...	28, Do.	
76	Do	do.	C do. ...	11, Sorab Santok Lane	
77	Do.	do.	C do. ...	22, Mahadeo S. Shet Lane	
78	Do.	do.	D do. ...	28, Khataralli	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
79	Malaria Inspector, D Ward ...	29, Khatarali...	Unfit.
80	Do. do. D do. ...	5 (23 and 3) Charni Road...	
81	Do. do. D do. ...	(7) Do.	
82	Do. do. D do. ...	526-530, Girgaum Road	
83	Do. do. D do. ...	106, Kandewadi	Objectionable.
84	Do. do. D do. ...	13, Khatarali	Unfit.
85	Do. do. D do. ...	22, Mugbhat Cross Lane	Objectionable.
86	Do. do. D do. ...	51, Do.	Unfit.
87	Do. do. D do. ...	10, Borbhat Lane	
88	Do. do. D do. ...	59, Khota's Wadi	Suspicious.
89	Deputy Health Officer, G Ward ...	513, Opposite Khoda Tank	Fair.
90	Malaria Inspector, G do. ..	142, Thakurdwar Road, S. W. Corner	
91	Do. do. G do. ...	Do. N. W. Corner	
92	Do. do. G do. ...	20, Khetwadi 4th Lane	
93	Do. do. G do. ...	153, Do. Main Road	
94	Do. do. G do. ...	7—9, Do. 9th Lane	
95	Do. do. G do. ...	108, Do. Main Road	
96	Do. do. G do. ...	8A-8AA, Do. 11th Lane, S. W. Corner B.	
97	Do. do. G do. ...	Do. do.	
98	Do. do. G do. ...	28-102, Trimbak P. Street	Unfit.
99	Do. do. G do. ...	28, Ardeshir Dadi Street	
100	Do. do. G do. ...	6, Dubash Wadi	
101	Do. do. G do. ...	10 Khetwadi 2nd Lane	
102	Do. do. G do. ...	11, New Breach Candy Road, opposite Gate ...	
103	Do. do. G do. ...	1, Do. near Railway Lines ...	
104	Do. do. G do. ...	13-17, Do. South-East	
105	Do. do. G do. ...	5—7, Do. East of Vadi	
106	Do. do. G do. ...	13-17, B. Do. South of Compound ...	
107	Do. do. G do. ...	72-74, Chowpati Road	Fair.
108	Do. do. G do. ...	4, Benham Hall Lane	Opinion not given.
109	Do. do. G do. ...	7 and 9 A, Do.	Unfit.
110	Do. do. G do. ...	Do.	
111	Do. do. G do. ...	20 B, Charni Road	
112	Do. do. G do. ...	22, French Road	
113	Do. do. G do. ...	15, Benham Hall Lane	
114	Do. do. G do. ...	45-47, Warden Road	Fit.
115	Do. do. G do. ...	5-30, Tardeo Road	Unfit.
116	Do. do. G do. ...	76, Nepean Sea Road	
117	Do. do. D do. ...	28, Do.	Fair.
118	Do. do. D do. ...	594-596, Girgaum Road	Suspicious.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
119	Malaria Inspector, D Ward ...	616, Girgaum Road...	
120	Do. do. E do. ...	39-43, Gilder Street...	
121	Do. do. E do. ...	9, Sleater Road	Unfit.
122	Do. do. E do. ...	36, Balaram Street	
123	Do. do. E do. ...	13, Sleater Road	
124	Do. do. E do. ...	441, Falkland Road...	
125	Do. do. E do. ...	363B, Grant Road	Fair.
126	Do. do. E do. ...	48,A.A., Ghorapdeo Road	
127	Do. do. E do. ...	78, Gilder Street	
128	Do. do. E do. ...	74, Do.	
129	Do. do. E do. ...	285, B & C Bellasis Road	
130	Do. do. E do. ...	24, Clare Road	Unfit.
131	Do. do. E do. ...	22, Do.	
132	Do. do. E do. ...	77, Matharpakadi Road	
133	Do. do. E do. ...	11, Gunpowder Road	
134	Do. do. E do. ...	13, Mount Road	
135	Do. do. E do. ...	918-926, Parel Road...	Objectionable.
136	Do. do. E do. ...	2, Do.	
137	Do. do. E do. ...	34-36, Warl Bunder Road (Cotton Press) ...	
138	Do. do. E do. ...	22, Clare Road	
139	Deputy Health Officer, G Ward ...	835, Kumar Gully	
140	Do. do. F do. ...	Naigaum Road, Owner Mr. Sethna	
141	Malaria Inspector, E Ward ...	26A, Clerk Road	
142	Do. do. E do. ...	246, Mahomedan Street	
143	Do. do. E do. ...	26A, Clerk Road	Unfit.
144	Do. do. E do. ...	26-27, Ripon Road	
145	Do. do. A Ward ...	Chinoy Mansion, Wodehouse Road	
146	Do. do. E do. ...	159, Haines Road	
147	Deputy Health Officer, E Ward ...	145-145A, Haines Road	
148	Malaria Inspector, A do. ...	274-280, Bazar Gate Street	
149	Do. do. A do. ...	66, Bomanji Street	Fit.
150	Do. do. A do. ...	196, Modi Street	Unfit.
151	Do. do. A do. ...	86-90, Bazar Gate Street	Suspicious.
152	Do. do. A do. ...	221-225, Do.	Unfit.
153	Do. do. A do. ...	41-43, Ghoga Street	Suitable.
154	Do. do. A do. ...	18-20, Jijibhai D. Street	
155	Do. do. A do. ...	Do. do.	Unfit.
156	Do. do. A do. ...	4, Nanabhai Lane	
157	Do. do. A do. ...	19, Ghoga Lane	
158	Do. do. A do. ...	29, Do.	Fit.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
159	Malaria Inspector, A Ward ...	82, Ghoga Lane	Unfit.
160	Do. do. A do. ...	15, Bhoiwar Lane	
161	Do. do. A do. ...	17, Do.	
162	Do. do. A do. ...	22-26, Ghogha Street, 2nd Well	
163	Do. do. A do. ...	Do. 1st Well	
164	Do. do. A do. ...	36, Ghogha Street	
165	Do. do. A do. ...	62, Bhoiwar Lane	Fit.
166	Do. do. A do. ...	67-69, Gunbow Street	Unfit.
167	Do. do. A do. ...	4, Nanabhai Lane	Objectionable.
168	Do. do. A do. ...	20-22, Parsee Bazar Street	Fair.
169	Do. do. A do. ...	27, Pitha Street	Unfit.
170	Do. do. A do. ...	30-32-36, Parsee Bazar Street	
171	Do. do. A do. ...	62-64, Cowasji Patel Street	Fair.
172	Do. do. A do. ...	71-73, Do.	Unfit.
173	Do. do. A do. ...	75, Do.	
174	Do. do. A do. ...	136, Bazar Gate Street, Common to 169-171, Bora Bazar Street	
175	Do. do. A do. ...	203-205, Bora Bazar Street	
176	Do. do. A do. ...	60, Maruti Street	Fit.
177	Do. do. A do. ...	21, Marine Lane	Unfit.
178	Do. do. A do. ...	29, Do.	Fit.
179	Do. do. A do. ...	27-33, Dalal Street	Unfit.
180	Do. do. A do. ...	5, Bastian Road	Fit.
181	Do. do. A do. ...	66, Maruti Street	
182	Do. do. A do. ...	62-64, Do.	
183	Do. do. A do. ...	Common to No. 36-38 and 40-42 Maruti Street...	
184	Do. do. A do. ...	26, Maruti Street	Unfit.
185	Do. do. A do. ...	Common to No. 32-34 Maruti Street	Do.
186	Do. do. A do. ...	4-10, Maruti Street	Fit.
187	Do. do. C do. ...	58, Do.	Very suspicious.
188	Do. do. C do. ...	Common to 17 and 19-21 Bomanji Street ...	Fair.
189	Do. do. C do. ...	30-34, Bazar Gate Street	Unfit.
190	Do. do. C do. ...	23-25, Gora Lane	Objectionable.
191	Do. do. C do. ...	49, Mint Road	
192	Do. do. C do. ...	23, Frere Road	Unfit.
193	Do. do. C do. ...	117-119, Mint Road...	
194	Do. do. C do. ...	50, Sonapur Street	
195	Do. do. C do. ...	442, Girgaum Road...	
196	Do. do. C do. ...	377-379, Do.	
197	Do. do. C do. ...	2, Fanaswadi Cross Lane	
198	Do. do. C do. ...	21-22, Vanka Mohólla	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
199	Malaria Inspector, C Ward ...	617, Vanka Moholla	Objectionable.
200	Do. do. C do. ..	475, Girgaum Road...	Fit.
201	Do. do. C do. ...	10—4, Kavelwadi	Unfit.
202	Do. do. C do. ...	100, Sonapur Street	
203	Do. do. C do. ...	25, Dadi Shet Street...	
204	Do. do. C do. ...	166—168, Kika Street	
205	Do. do. C do. ...	213, Cavel	
206	Do. do. C do. ...	443—445, Girgaum Road	
207	Do. do. C do. ...	66, Sonapur Street	
208	Do. do. C do. ...	18, 3rd Marine Street	
209	Do. do. C do. ...	16, Pinjrapole Road...	
210	Do. do. C do. ...	55, 57, 59 Panjrapole Road	
211	Deputy Health Officer, G do. ...	F 509, Mahim Agar...	Opinion not given.
212	G. I. P. Railway Engineer ...	Banas Hewn Mile No. 9	Fit.
213	Do. do. do. ...	Do. do. 11	
214	Do. do. do. ...	Do. do. 39½	Unfit.
215	Do. do. do. ...	Do. do. 81	Suitable.
216	Malaria Inspector, C Ward ...	288—290, Kalbadevi Road...	Fit.
217	Do. do. C do. ...	194-196, Girgaum Road	Unfit.
218	Do. do. C do. ...	120-122, Dadi Shet A. Street	Objectionable.
219	Do. do. C do. ...	42-46, 3rd Bhoiwada	Unfit.
220	Do. do. C do. ...	106-108, Girgaum Road	
221	Do. do. C do. ...	11, Thakurdwar Road	Objectionable.
222	Deputy Health Officer, G do. ...	652, Lady Jamshedji Road...	Fair.
223	Malaria Inspector, C do. ...	2, 3rd Popalwadi and 82 (15) Bhuleshwar Road.	Unfit.
224	Do. do. C do. ...	1-3, Vanka Moholla...	
225	Do. do. C do. ...	41-43, Trinity Street	
226	Do. do. C do. ...	1, New Wadi	
227	Do. do. C do. ...	75, (5) Dadishet A. Street	
228	Do. do. D do. ...	465-67, Walkeshwar Road	Fair.
229	Do. do. D do. ...	42-5, Do.	Unfit.
230	Do. do. D do. ...	3, Wilderness Road	Fit.
231	Do. do. D do. ...	3, Warden Road	Unfit.
232	Do. do. D do. ...	49-51, Do.	Opinion not given.
233	Do. do. D do. ...	34-38, Tardeo Road	Unfit.
234	Do. do. D do. ...	586 (2), Girgaum Road	
235	Do. do. D do. ...	4, Damar Lane	
236	Do. do. D do. ...	4, Road south of French Bridge	
237	Do. do. D do. ...	17, Khatarali...	
238	Do. do. D do. ...	564, (2), Girgaum Road	
239	Do. do. D do. ...	527, Girgaum Road...	Fit.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinoin as to potability from chemical examination.
240	Malaria Inspector, D Ward ...	133—137, (2) Girgaum Back Road	
241	Do. do. D do. ...	Khambata Lane Printing Press	
242	Do. do. D do. ...	4, Road south of Grant Road Bridge	
243	Do. do. D do. ...	155, Khetwadi Main Road	
244	Do. do. D do. ...	6, 3rd Parsiwada	
245	Do. do. E do. ...	471, Falkland Road	Unfit.
246	Do. do. E do. ...	Madhaoji D. Mfg. Co., Foras Road	
247	Do. do. E do. ...	5, Byramji Hall Lane	
248	Do. do. E do. ...	38, Nesbit Road	
249	Do. do. E do. ...	7, Victoria Road	
250	Do. do. E do. ...	8, Foras Road	
251	Deputy Health Officer, F do. ...	1171, Golanji Hill Road	Objectionable.
252	Malaria Inspector, E do. ...	Do. A Do.	Fair.
253	Do. do. E do. ...	663, Tardeo Road	
254	Do. do. E do. ...	4, Do.	
255	Do. do. E do. ...	379, Do.	
256	Do. do. E do. ...	161, Do.	Unfit.
257	Do. do. E do. ...	10, Sleater Road	
258	Do. do. E do. ...	113/C (West) Gilder Street...	
259	Do. do. E do. ...	Do. (East) Do.	
260	Do. do. E do. ...	30—3A, Mazagon Road, North	Fair.
261	Do. do. E do. ...	Do. South	
262	Do. do. E do. ...	1—9, Love Lane	
263	Do. do. E do. ...	14—16, Ghorapdeo Road	
264	Deputy Health Officer, G do. ...	428, D'Lisle Road	
265	Malaria Inspector, E do. ...	24 E and 28 D, Ripon Road	
266	Do. do. E do. ...	26—28, Do.	
267	Do. do. E do. ...	190—92, D'Lisle Road	
268	Do. do. E do. ...	11, Nesbit Road	
269	Do. do. E do. ...	16, Mount Road	
270	Do. do. E do. ...	176—178, D'Lisle Road	Unfit.
271	Do. do. C do. ...	38, Cavel	
272	Do. do. C do. ...	50—52, Dadiaket A Street	
273	Do. do. C do. ...	75, Sonapur Street	
274	Do. do. C do. ...	2, Dhuswadi	
275	Do. do. C do. ...	1—3, Khetwadi Main Road	
276	Do. do. A do. ...	39—41, Common to Police Court Lane	
277	Do. do. A do. ...	32—34, Police Court Lane...	
278	Do. do. A do. ...	13—15 Do.	Fair.
279	Do. do. C do. ...	5, Dhuswadi	Unfit.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinin as to potability from chemical examination.
280	Malaria Inspector, C Ward ...	41, Popat Wadi	Fit.
281	Do. do. C do. ...	55 Do.	Do.
282	Do. do. A do. ...	36-38, Gola Lane	Unfit.
283	Do. do. A do. ...	27-29, Do.	Fair.
284	Do. do. A do. ...	20, Do.	Unfit.
285	Do. do. C do. ...	343 to 357, Girgaum Road...	Do
286	Do. do. C do. ...	22-23, Bhau Rasul Road	Do.
287	Do. do. C do. ...	81-83, Sonapur Street	Objectionable.
288	Do. do. A do. ...	11, Maruti Street	Fit.
289	Do. do. A do. ...	370-374, Bora Bazar Street...	Objectionable.
290	Do. do. A do. ...	27-25, Maruti Street	Unfit.
291	Do. do. A do. ...	54-56, Gola Lane	Fit.
292	Do. do. A do. ...	48-50, Do.	Do.
293	Do. do. A do. ...	20-22, Bomanji Lane	Very suspicious.
294	Do. do. A do. ...	115-117, Hornby Road Well	Fit.
295	Do. do. A do. ...	Do. 1st Well	Do.
296	Do. do. A do. ...	101, Hornby Road	Suspicious.
297	Do. do. C do. ...	19-20, Vanka Mohalla	Unfit.
298	Do. do. C do. ...	15, Burrows Lane	
299	Do. do. A do. ...	Colaba Causeway near Chauki No. 2	
300	Do. do. A do. ...	1st Pasta Lane (East)	
301	Do. do. A do. ...	Do. (West)	
302	Do. do. C do. ...	4, 1st Kolbhat Lane	
303	Do. do. C do. ...	15, Girgaum Road	
304	Do. do. C do. ...	8, Kolbhat Cross Lane	Suspicious.
305	Do. do. A do. ...	61-63, Esplanade Road	Fit.
306	Do. do. A do. ...	South of Pasta Lane 1st	Unfit.
307	Do. do. A do. ...	Shed No. 39, Colaba Road	Do.
308	Do. do. A do. ...	85-87 Bazar Gate Street	Fit.
309	Do. do. A do. ...	17-19, Modi Street	Opinion not given.
310	Do. do. A do. ...	3-7, Modi Street	Unfit.
311	Do. do. A do. ...	45, Wandby Road	
312	Do. do. A do. ...	107-111, Mint Road	
313	Do. do. A do. ...	123-125, Do.	
314	Do. do. D do. ...	536, Tardeo Road	
315	Do. do. D do. ...	49-51, Warden Road	
316	Do. do. D do. ...	42, Forjett Street	
317	Deputy Health Officer, G do. ...	362-363, Lohar Chawl	
318	Do. do. G do. ...	Sadashiv Temple, Mahim	
319	Malarial Inspector, A do. ...	60-62, Modi Street	Objectionable.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
320	Malaria Inspector, A Ward ...	103, Frere Road	Unfit.
321	Do. do. A do. ...	Common to 21-23 and 25-27, Jijibhoy A Lane ...	
322	Do. do. D do. ...	2BB, Walkeshwar Road	
323	Do. do. D do. ...	9, Borbhat Lane	Objectionable.
324	Do. do. D do. ...	5-13, Mugbhat Lane...	
325	Do. do. D do. ...	1, Khetwadi 10th Lane	Unfit.
326	Do. do. D do. ...	209, Girgaum Back Road	
327	Do. do. D do. ...	101, Do.	
328	Do. do. A do. ...	69, 1st Marine Street	
329	Do. do. A do. ...	39, Marine Lines	Fit.
330	Do. do. A do. ...	50, Scotch Cemetery	Suspicious.
331	Do. do. A do. ...	36, Cowasji Patel Street	Unfit.
332	Do. do. A do. ...	46, Do.	
333	Do. do. A do. ...	95, Do.	
334	Do. do. B do. ...	10—12, Vithoba Lane	Fair.
335	Do. do. B do. ...	5, Telwadi	Unfit.
336	Do. do. B do. ...	48-50, Dhanji Street...	
337	Do. do. A do. ...	8-10, Pitha Street	Fair.
338	Do. do. A do. ...	13, Nanabhai Lane	Unfit.
339	Do. do. A do. ...	80, Bhoiwar Lane	
340	Do. do. B do. ...	327-329, Kalbadevi Road	Objectionable.
341	Do. do. B do. ...	202-12, Argyle Road...	Unfit.
342	Do. do. B do. ...	236-262, Shaik Memon Street	
343	Do. do. A do. ...	48, Frere Road	Objectionable.
344	Do. do. A do. ...	2nd Well, 51-53, Hornby Road	Fit.
345	Do. do. A do. ...	1st Well, Do.	
346	Do. do. B do. ...	95-123, Memanwada Road	Unfit.
347	Do. do. B do. ...	88—90, Samuel Street	
348	Do. do. B do. ...	27-29, Cazi Sayad Street	
349	Do. do. A do. ...	12, Nanabhai Lane	
350	Do. do. A do. ...	71-73, Ghunbav Street	
351	Do. do. A do. ...	6 C, Wodehouse Road	
352	Do. do. B do. ...	346-347, Abdul Rehman Street	
353	Do. do. B do. ...	Do. (South)...	
354	Do. do. B do. ...	15-17, Narayan Dhuru Street	
355	Deputy Health Officer, F do. ...	Animal Hospital, 1st Well...	
356	Do. do. F do. ...	Do. 2nd Well	
357	Do. do. F do. ...	Do. 3rd Well	
358	Malarial Inspector, A do. ...	80-82, Modi Street	
359	Do. do. A do. ...	2A, Frere Road	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
360	Malaria Inspector, A Ward...	11, Marine Lines	Fair.
361	Do. do. B do. ...	27-37, Narayan D. Street	Unfit.
362	Do. do. B do. ...	28-32, Do.	
363	Do. do. B do. ...	4, Mirza Alikhan Street	
364	Do. do. B do. ...	21-25, Vithoba Lane	
365	Do. do. B do. ...	267-269, Shaik Memon Street	
366	Do. do. A do. ...	51-52, Thomas Street	
367	Do. do. A do. ...	613-115, Mint Road	Fair.
368	Do. do. A do. ...	8-12, Goa Street	Unfit.
369	Do. do. A do. ...	13-15, Modi Street	Fit.
370	Do. do. A do. ...	229, Bora Bazar Street	Unfit.
371	Do. do. B do. ...	21-25, Jail Road, North	Unfit.
372	Do. do. B do. ...	73-77, Isaji Street	
373	Do. do. B do. ...	32, Jail Road, North	
374	Do. do. D do. ...	1-20, Charni Road near Weaving Shed ...	
375	Do. do. D do. ...	3A-3B, Damar Lane	
376	Do. do. D do. ...	1-20, Charni Road near Girgaum Road Junction...	
377	Do. do. D do. ...	27-BE, Benham Hall Lane	Fair.
378	Do. do. D do. ...	4, Do.	Unfit.
379	Do. do. D do. ...	17, French Road	
380	Do. do. A do. ...	10-12, King Road common to 14-16	
381	Do. do. A do. ...	85-87-89, Hornby Road	
382	Do. do. A do. ...	123, Do.	Somewhat objectionable.
383	Deputy Health Officer, G do. ...	69, Mahim Bazar Road	Unfit.
384	Malaria Inspector, D do. ...	11-12, Borbhat Lane	
385	Do. do. D do. ...	14-15, Mugbhat Cross Lane	
386	Do. do. D do. ...	216, Walkeshwar Road	
387	Do. do. A do. ...	3-15, Parsi Punchait Lane	Fit.
388	Do. do. A do. ...	75, Hornby Road	Unfit.
389	Do. do. A do. ...	17-19, Modi Street	Fair.
390	Do. do. G do. ...	30, Mahim Bazar Road	Unfit.
391	Do. do. A do. ...	18-17, Ghogha Street	Fit.
392	Do. do. A do. ...	13, Nanabhai Lane	Unfit.
393	Do. do. A do. ...	22-24, Cowasji Patel Street	
394	Do. do. D do. ...	5-18, Tardeo Road	
395	Do. do. D do. ...	10-10A and 11, Falkland 8th Cross Lane ...	
396	Do. do. D do. ...	118-120, Khetwadi Main Road	
397	Do. do. D do. ...	52-56, Nepean Sea Road	
398	Do. do. D do. ...	6, Harkness Road	Fit.
399	Do. do. A do. ...	22-24, Gola Lane	Objectionable.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
400	Malaria Inspector, A Ward ...	172-174, Bohra B. Street	Fit.
401	Do. do. A do. ...	153-157, Hornby Road	Unfit.
402	Do. do. B do. ...	22-24, Oval Wadi	Fair.
403	Do. do. B do. ...	169-79, Parel Road	Unfit.
404	Do. do. B do. ...	Babula Tank Road Health Camp	Fair.
405	Do. do. B do. ...	357, Abdul Rehman Street	Unfit.
406	Do. do. B do. ...	278-80, Nagdevi Street	
407	Do. do. B do. ...	363-369, Kalbadevi Road	
408	Do. do. B do. ...	379-381, Do.	
409	Do. do. B do. ...	31-33 Dhanji Street...	
410	Do. do. A do.	33-39, Manordas Street	Fit.
411	Do. do. A do. ...	39, Bora Bazar Street	Unfit.
412	Do. do. A do. ...	22-28, Mangesh S. Street	
413	Deputy Health Officer, F do. ...	167AB, Dadar Road	
414	Malaria Inspector, B do. ...	3, Picket Road	Objectionable.
415	Do. do. B do. ...	97-101, Champavadi...	Do.
416	Do. do. B do. ...	241-243, Kalbadevi Road	Suspicious.
417	Do. do. A do. ...	61, Cawasji P. Street	Opinion not given.
418	Do. do. A do. ...	18, Dalal Street	Unfit.
419	Do. do. A do. ...	6, Apollo Pier Road	
420	Do. do. B do. ...	48-50, 2nd Samuel Street	Slightly objectionable.
421	Do. do. B do. ...	47, Kazi Sayad Street	Unfit.
422	Do. do. B do. ...	New Building, Carnac Road	
423	Do. do. A do. ...	7, Murzban Road	Fit.
424	Do. do. A do. ...	11, Waudby Road	Unfit.
425	Do. do. A do. ...	22-28, Mangesh S. Street	Objectionable.
426	Do. do. A do. ...	Roadside, Esplanade Road	Fit.
427	Do. do. A do. ...	In Maidan behind G. T. Office	
428	Do. do. B do. ...	106-108, Tandel Street	Unfit.
429	Do. do. B do. ...	Do.	
430	Do. do. B do. ...	466, Jackeria Musjid Street	Fit.
431	Deputy Heath Officer, G do. ...	250, Portuguese Church Road	Unfit.
432	Do. do. C do. ...	13-21, 2nd Pinjrapole Road	
433	Do. do. C do. ...	25, Do.	
434	Do. do. C do. ...	32-34, Do.	
435	Do. do. B do. ...	274-276, Samuel Street	Fair.
436	Do. do. B do. ...	806-820, Jail Road East	Objectionable.
437	Do. do. B do. ...	25-27, Imamwada Road	Unfit.
438	Do. do. C do. ...	22-24, Joint Well and 26-30 Bhoiwada Lane ...	
439	Do. do. C do. ...	176, Kika Street	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from		Situated at	Opinion as to potability from chemical examination.
440	Malaria Inspector,	C Ward ...	158-164, Kika Street	Unfit.
441	Do.	do. A do. ...	33, Marine Lines	
442	Do.	do. A do. ...	Roadside Hospital Lane	Fit.
443	Do.	do. A do. ...	Roadside Quarters, Military, Mayo Road ...	
444	Do.	do. C do. ...	11, Bhaskar Lane...	Unfit.
445	Do.	do. C do. ...	14-15, Kumbhar Lane	
446	Do.	do. C do. ...	13-15, Thakurdwar Road	Fair.
447	Do.	do. C do. ...	16-11, II Fanaswadi	Objectionable.
448	Do.	do. C do. ...	388, Girgaum Road	Suspicious.
449	Do.	do. C do. ...	29, Karelwadi	Unfit.
450	Do.	do. C do. ...	121, Girgaum Road	
451	Do.	do. C do. ...	13-15, Chandan Wadi	
452	Do.	do. C do. ...	10, Old Sonapur Street	
453	Do.	do. A do. ...	16, Gola Lane	Fair.
454	Do.	do. A do. ...	18, Do.	Unfit.
455	Do.	do. A do. ...	Do.	Objectionable.
456	Deputy Health Officer,	G do. ...	272, Khed Gulli	Unfit.
457	Malaria Inspector,	A do. ...	33, Mint Road	
458	Do.	do. A do. ...	2 A, Karwar Road	
459	Do.	do. A do. ...	56-58, Homji Street...	
460	Deputy Health Officer,	G do. ...	691 A, Kumar Gulli	
461	Malaria Inspector,	A do. ...	28, Frere Road	
462	Do.	do. A do. ...	207-209, Pilot Bunder Road	
463	Do.	do. A do. ...	Do.	
464	Do.	do. A do. ...	105, Frere Road	Very suspicious.
465	Do.	do. A do. ...	77, Parsi Bazar Street	Unfit.
466	Do.	do. A do. ...	41-45, Do.	Fit.
467	Do.	do. A do. ...	21, Frere Road	Unfit.
468	Do.	do. A do. ...	127-129, Mint Road	
469	Do.	do. A do. ...	Roadside, Elphinstone Circle	Very suspicious.
470	Do.	do. A do. ...	108-110, Mint Road	Unfit.
471	Do.	do. A do. ...	19, Manordas Street...	
472	Do.	do. A do. ...	29-31, Do.	Objectionable.
473	Do.	do. A do. ...	11, Maruti Street	Very suspicious.
474	Do.	do. A do. ...	64-69, Do.	Fit.
475	Do.	do. A do. ...	92-94, Do.	Unfit.
476	Do.	do. A do. ...	32, Do.	
477	Do.	do. A do. ...	80, Do.	Unfit.
478	Do.	do. A do. ...	48-50, Do.	
479	Do.	do. A do. ...	214-220, Bora Bazar Street	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
480	Malaria Inspector, A Ward ...	14-16, Jijibhai D. Lane	Fair.
481	Do. do. A do. ...	77, Maruti Street	Unfit.
482	Do. do. A do. ...	51-53 Do.	Fit.
483	Do. do. A do. ...	3-5 Raghunath D. Street	Unfit.
484	Do. do. A do. ...	22, Mint Road	
485	Do. do. A do. ...	26, Gola Lane	Suitable.
486	Do. do. A do. ...	24-26, Bora Bazar Street	
487	Do. do. A do. ...	28-34, Do.	
488	Do. do. A do. ...	350-356, Do.	
489	Do. do. A do. ...	28, Gola Lane	Fair.
490	Do. do. A do. ...	66-68 Do.	Unfit.
491	Do. do. A do. ...	203-205 Hornby Road	
492	Do. do. A do. ...	181-185, Do.	
493	Do. do. A do. ...	238, Bora Bazar Street	
494	Do. do. A do. ...	194-196, Do.	
495	Do. do. A do. ...	52-53, Bomanji Street	
496	Do. do. A do. ...	207, Hornby Road	
497	Do. do. A do. ...	59-61, Cawasji Patel Street	
498	Do. do. A do. ...	Roadside, Cowasji Patel Street	
499	Do. do. A do. ...	Do. Pitha Street	
500	Do. do. A do. ...	14-16, Parsi Panchait Lane	
501	Do. do. A do. ...	13, Nanabhai Lane	
502	Do. do. A do. ...	4, Do.	
503	Do. do. A do. ...	92-94, Parsi Bazar Street	
504	Do. do. A do. ...	41-43, Ghogha Street	Suspicious.
505	Do. do. A do. ...	76, Do.	Unfit.
506	Do. do. A do. ...	80, Do.	Fair.
507	Do. do. A do. ...	64-66, Bhoiwar Lane	Fit.
508	Do. do. A do. ...	88-90, Parsi Bazar Street	Fair.
509	Deputy Health Officer, E do. ...	13, Mount Road	Unfit.
510	Do. do. E do. ...	11, Gunpowder Road	
511	Malaria Inspector, A do. ...	12, 14, 16, Pitha Street	
512	Do. do. A do. ...	38, Ghogha Street	
513	Do. do. A do. ...	36, Do.	
514	Do. do. A do. ...	70-72, Hornby Road...	
515	Do. do. A do. ...	4, 1st Koli Lane	
516	Do. do. E do. ...	Junction of Parel Road and Connaught Road ...	
517	Do. do. B do. ...	43-53, Samuel Street	
518	Do. do. B do. ...	100-104, Do.	
519	Do. do C do. ...	368-370, Kalbadevi Road	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
520	Malaria Inspector, C Ward.	186-188, Bapu Khote Street	Unfit.
521	Do. do. D do.	13, Narayan D. Street	Fit.
522	Deputy Health Officer, G do.	843, Mahim Cross Lane	Unfit.
523	Malaria Inspector, D do.	3, Thakurdvar Road	
524	Do. do. B do.	98-108, D'Souza Street	
525	Do. do. B do.	298-308, Dongri Street	Fit.
526	Do. do. C do.	9, Bhaskar Lane	Unfit.
527	Do. do. C do.	10 Do.	
528	Do. do. D do.	1, Kandewadi	Fit
529	Do. do. C do.	7, Bhaskar Lane	Unfit.
530	Do. do. C do.	13-14, Vanka Mohollа	
531	Do. do. E do.	1-7, Chinchpoogli Cross Lane	
532	Do. do. B do.	23, Parel Road	Objectionable.
533	Do. do. B do.	43 Do.	Fair.
534	Do. do. D do.	6, Girgaum Back Road	Unfit.
535	Do. do. E do.	228-230 Parel Road	
536	Do. do. C do.	388 (10) Girgaum Road	
537	Do. do. C do.	74-76, Dadisett Agiari Street	
538	Do. do. E do.	77, Matharpakadi Road	
539	Do. do. C do.	387-391, Girgaum Road	
540	Do. do. C do.	1 (2) AA. Cavel	Very suspicious.
541	Do. do. D do.	37, Warden Road	Unfit.
542	Do. do. B do.	720, Jail Road, East...	
543	Do. do. B do.	Do.	
544	Do. do. D do.	49, Nepean Sea Road	Fit.
545	Do. do. C do.	34, Cavel	Unfit.
546	Do. do. C do.	29, New Vadi	Objectionable.
547	Do. do. C do.	5-13, Sonapur Street	Unfit.
548	Do. do. C do.	6-7, Ropa Lane	
549	Do. do. B do.	29, Jambul Wadi	
550	Do. do. B do.	22-24 Do.	Objectionable.
551	Do. do. D do.	44, Banganga...	Suitable.
552	Do. do. C do.	2, Dadishet Agiari Street	Unfit.
553	Do. do. C do.	6, Kumbhar Lane	
554	Do. do. B do.	73-75, Dhanji Street...	
555	Do. do. B do.	71 Do.	
556	Do. do. D do.	43, Banganga	
557	Do. do. D do.	24-30, Khetwadi 6th Lane	
558	Do. do. C do.	2, Wellington Street	
559	Do. do. B do.	127-135, Vithalwadi	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
560	Malaria Inspector, B Ward.	33, Telwadi	Unfit.
561	Do. do. B do.	77-83, Dhanji Street	
562	Do. do. B do.	116, Agiari Cross Lane	
563	Do. do. B do.	219-233, Shaik Memon Street	
564	Do. do. B do.	364-394, Do. do.	Objectionable.
565	Do. do. B do.	2-8, Vithoba Lane	Unfit.
566	Do. do. B do.	40-41, Telwadi	
567	Do. do. B do.	45-46, Do.	
568	Do. do. B do.	103-109, Vithalwadi	
569	Do. do. E do.	12, Mazagon Road	
570	Do. do. E do.	6, Do.	
571	Do. do. B do.	38-56, B. M. G. Vadi, 15 Suta Gully	
572	Do. do. B do.	39-45, Sutar Chawl	
573	Do. do. B do.	406-410, Shaik Meman Street	
574	Do. do. B do.	Mumbadevi Tank	
575	Do. do. B do.	20-26, Vithalwadi	Objectionable.
576	Do. do. B do.	127-129, Champawadi	Fit.
577	Do. do. B do.	167-169, Do	Fair.
578	Do. do. E do.	23, Love Lane	Unfit.
579	Do. do. E do.	1, Hansraji Lane	
580	Do. do. B do.	104-124, Vithalwadi	Objectionable.
581	Do. do. E do.	34-36, Mount Road	Unfit.
582	Do. do. E do.	22, Victoria Road	
583	Do. do. C do.	5, Ardeshir Dadi Cross Lane	Fit.
584	Do. do. C do.	4, Do.	Unfit.
585	Do. do. C do.	297-299, Girgaum Road	
586	Do. do. D do.	192, Girgaum Back Road	Fair.
587	Do. do. D do.	166 (1-2-2-*a* and 3), Girgaum Back Road	Fit.
588	Do. do. D do.	14, Khatarali	Objectionable.
589	Do. do. D do.	56, Kandewadi	Unfit.
590	Do. do. E do.	14-16, Nesbit Road	Objectionable.
591	Do. do. E do.	1-33-35, Do.	Unfit.
592	Do. do. D do.	213-215, Girgaum Back Road	
593	Do. do. D do.	169-171, Khetwadi Main Road	
594	Do. do. D do.	132-136 Do.	
595	Do. do. D do.	124, Do.	
596	Do. do. D do.	Olympia Cinema, Sandhurst Road	
597	Do. do. D do.	127, Khetwadi Main Road	
598	Do. do. D do.	8-10B, Nepean Sea Road	Suspicious.
599	Do. do. E do.	22, Mazagon Road	Objectionable.
600	Do. do. E do.	14, Do.	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
601	Malaria Inspector, A Ward ...	New Science Institute	Unfit.
602	Do. do. A do. ...	Do. South-west	
603	Do. do. A do. ...	Do. in Chowk	
604	Do. do. A do. ...	17-19, Church Gate Street	
605	Do. do. A do. ...	54-58, Tamarind Lane	Objectionable.
606	Do. do. A do. ...	Great Western Hotel	
607	Do. do. E do. ...	31, Babula Tank Road	Unfit.
608	Do. do. E do. ...	18-12, Tank Bunder Road	
609	Do. do. A do. ...	170-173, Bazar Gate St. Common to 191-193 Bora Bazar Street	Fair.
610	Do. do. A do. ...	210-212, Bazar Gate Street...	
611	Do. do. A do. ...	200-202, Do.	Objectionable.
612	Do. do. E do. ...	23, Mount Road	Unfit.
613	Do. do. E do. ...	Do. near Chuna Bhati	
614	Do. do. A do. ...	201-203, Bazar Gate Street...	Objectionable.
615	Do. do. A do. ...	Road side Mint Road	
616	Do. do. A do. ...	Do. Fort Street	
617	Do. do. E do. ...	19, Mount Road	
618	Do. do. E do. ...	28, Do.	
619	Do. do. A do. ...	268-272, Bazar Gate Street	Unfit.
620	Do. do. A do. ...	322-326, Do.	
621	Do. do. A do. ...	528-538, Do.	
622	Do. do. E do. ...	51-55, Mazagon Road	
623	Do. do. E do. ...	69, Do.	
624	Do. do. A do. ...	310-313, Bazar Gate Street	Fit.
625	Do. do. A do. ...	54, Do.	Fair.
626	Do. do. A do. ...	62-64, Do.	
627	Deputy Health Officer, G do. ...	3, Elphinstone Road	Unfit.
628	Malaria Inspector, E do. ...	42-44, Matharpakadi Road...	
629	Do. do. A do. ...	171-175 Bazar Gate Street...	Suitable.
630	Do. do. A do. ...	101-103 Do.	Unfit.
631	Do. do. A do. ...	109 Do.	
632	Do. do. A do. ...	333-340, Bora Bazar Street	
633	Do. do. A do. ...	376-378 Do.	
634	Do. do. A do. ...	180-182 Do.	Fit.
635	Do. do. A do. ...	48-50 Bomanji Street	Suitable.
636	Do. do. A do. ...	42 46 Do.	Suspicious.
637	Do. do. A do. ...	202, Bora Bazar Street	Unfit.
638	Do. do. A do. ...	39 Gola Lane	Objectionable.
639	Do. do. A do. ...	36 to 38, Bomanji Street	
640	Do. do. A do. ...	28 34 Do.	Unfit.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
641	Malaria Inspector, A Ward ...	11-13, Raghunath D. Street	Objectionable.
642	Do. do. A do. ...	25 Do.	Unfit.
643	Do. do. A do. ...	35-37 Do.	Objectionable.
644	Do. do. E do. ...	4-13, Parel Road	Unfit.
645	Do. do. E do. ...	12-14, Love Lane	
646	Do. do. E do. ...	108, Matharpakhadi	
647	Do. do. E do. ...	107-109 Do.	
648	Do. do. E do. ...	22-24, Clerk Road	
649	Do. do. E do. ...	2 D'Lisle Road Cross Lane	
650	Do. do. E do. ...	12 Victoria Road to North-East	
651	Do. do. E do. ...	Do. South-East	
652	Do. do. E do. ...	106 A. and B., Matharpakadi Road, South-West..	
653	Do. do. E do ...	Do. South-East...	
654	Do. do. E do. ...	64 C. C. Ripon Road	Suspicious.
655	Do. do. E do. ...	8-14 Haines Road	Fit.
656	Deputy Health Officer, G do. ...	706 A. P., Church Street	Unfit.
657	Malaria Inspector, E do. ...	20, Mazagon Road	
658	Do. do. E do. ...	40, Nesbit Road	
659	Do. do. E do. ...	6, Dockyard	Fair.
660	Do. do. E do. ...	7, Do.	Fit.
661	Do. do. E do. ...	26-27 Ripon Road, West	Unfit.
662	Do. do. E do. ...	Do. East	
663	Do. do. E do. ...	1, Victoria 1st Cross Lane	
664	Do. do. E do. ...	3 B., Connaught Road	
665	Do. do. E do. ...	30-68, Gilder Street...	
666	Do. do. E do. ...	74 Do.	
667	Do. do. E do. ...	5, Gunpowder Road, South	Fit.
668	Do. do. E do. ...	Do. West	
669	Do. do. E do. ...	9, Dockyard Road	Unfit.
670	Do. do. E do. ...	17, Gunpowder Road	
671	Do. do. E do. ...	2, Ripon Road	
672	Do. do. E do. ...	289, Bellasis Road...	
673	Do. do. E do. ...	13-17, Nawab Tank Road...	
674	Do. do. E do. ...	3 Wari Bunder Road	
675	Do. do. E do. ...	918-926, Parel Road...	Fit.
676	Do. do. E do. ...	16-18, 5th 8th Kamathipura	Unfit.
677	Do. do. E do. ...	3, Kamathipura 9th Street...	
678	Do. do. E do. ...	139, Tank Street	
679	Do. do. E do. ...	95, Parel Road	
680	Do. do. E do. ...	75-77 Do.	
681	Do. do. E do. ...	67 Do.	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from			Situated at	Opinion as to potability from chemical examination.
682	Malaria Inspector,	E	Ward ...	4-31 Parel Road	
683	Do.	do.	E do. ...	5-8 Dockyard Road	
684	Do.	do.	E do. ...	63, Coppersmith Street	Unfit.
685	Deputy Health Officer,	G	do. ...	69, Mahim Bazar Road	
686	Malaria Inspector,	B	do. ...	265-267, Kalbadevi Road	
687	Do.	do.	B do. ...	237-239 Do.	
688	Do.	do.	A do. ...	44-48 Mangesh S. Street	Fit.
689	Do.	do.	A do. ...	18-20 King Road	
690	Do.	do.	A do. ...	3-5, Jijibhai D. Lane	
691	Do.	do.	C do. ...	18, Maruti Lane	Unfit.
692	Do.	do.	C do. ...	41-43, Cathedral Street	
693	Do.	do.	B do. ...	59, Samuel Street	
694	Do.	do.	B do. ...	224, Musjid Bunder Road	
695	Do.	do.	A do. ...	Common to 13-15 and 17-19 Jijibhai D. Street ...	Objectionable.
696	Do.	do.	A do. ...	60, Gola Lane	Suspicious.
697	Do.	do.	C do. ...	2-14, 1st Bhoiwada Lane	
698	Do.	do.	C do. ...	2-4 & 6 & 8 1st Pinjrapole Street and 17, 1st Pinjrapole Road	Unfit.
699	Do.	do.	A do. ...	14-16, Jijibhai D. Street	
700	Do.	do.	A do. ...	40, Police Court Lane	
701	Do.	do.	A do. ...	Common to 27-29 and 31-33, Police Court Lane..	Suspicious.
702	Do.	do.	D do. ...	8, Khota's Wadi	
703	Do.	do.	D do. ...	58, Do.	
704	Do.	do.	D do. ...	88, Mugbhat Cross Lane	
705	Do.	do.	D do. ...	207, Girgaum Back Road	
706	Do.	do.	D do. ...	20, Banganga	Unfit.
707	Do.	do.	D do. ...	44, Forjett Street	
708	Do.	do	A do. ...	395 D, Arthur Road...	
709	Do.	do.	A do. ...	New Gaddum & Co.'s Shed, Victoria Bunder Road	
710	Do.	do.	A do. ...	98-100, Modi Street	Suspicious.
711	Do.	do.	A do. ...	66, Maruti Street	
712	Do.	do.	A do. ...	23, Police Court Lane	Unfit.
713	Do.	do.	A do. ...	5-7 Do.	Fit.
714	Do.	do.	A do. ...	209 Hornby Road	Unfit.
715	Do.	do.	A do. ...	257 Do.	Fair.
716	Do.	do.	A do. ...	263 Do.	Fit.
717	Do.	do.	E do. ...	2-8 D'Lima Street	
718	Do.	do.	E do. ...	46-48, Church Street	
719	Do.	do.	B do. ...	163, Kalbadevi Road	Unfit.
720	Do.	do.	C do. ...	186-190 & 192-194, Kalbadevi Road	
721	Do.	do.	E do. ...	23 D'Lima Street	Fit.
722	Do.	do.	E do. ...	27 Do.	Fair.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
723	Malaria Inspector, D Ward ...	10, Pedder Road	Unfit.
724	Do. do. B do. ...	Princess Street, opposite Pathan Building ...	
725	Do. do. A do. ...	155, Modi Street	
726	Deputy Health Officer, G do. ...	407, Woollen Mill Gully	
727	Malaria Inspector, D do. ...	154 (2 & 2 A) Girgaum Back Road	
728	Do. do. B do. ...	33, Princess Street	
729	Do. do. E do. ...	1 D'Lima Cross Lane	
730	Do. do. E do. ...	92 Do.	
731	Do. do. E do. ...	34-36, Mount Road	
732	Do. do. E do. ...	4-31, Parel Road	
733	Do. do. E do. ...	11-13, 2nd Carpenter Street	
734	Do. do. E do. ...	3, D'Lima Cross Lane	
735	Do. do. D do. ...	106-108, Girgaum Back Road	Suspicious.
736	Do. do. B do. ...	278-80, Nagdevi Street	Unfit.
737	Do. do. E do. ...	14-16, Nesbit Road	Suspicious.
738	Do. do. E do. ...	39-51, 1st Carpenter Street...	Unfit.
739	Do. do E do. ...	23, Do.	
740	Do. do. B do. ...	140-148, New Hanuman Lane	
741	Private	Barda East End Level	Locomotive purposes.
742	Malaria Inspector, D Ward ...	35-39, (2-3-4) Mugbhat Lane	Unfit.
743	Do. do. E do. ...	24-28, Ghorapdev Road	
744	Do. do. A do. ...	Merewether Road	Objectionable.
745	Do. do. E do. ...	268, Duncan Road	Unfit.
746	Do. do. E do. ...	2 A, Parel Road Cross Lane	
747	Do. do. E do. ...	Gangawadi Road	
748	Do. do. E do. ...	59, Dockyard Road	
749	Do. do. E do. ...	906-908, Parel Road...	
750	Do. do. D do. ...	10, Girgaum Back Road	
751	Do. do. A do. ...	5, 1st Koli Lane	
752	Do. do. B do. ...	1, Picket Road	Objectionable.
753	Do. do. D do. ...	38-40, Forjett Street	Unfit.
754	Do. do. E do. ...	16-18, Gunpowder Road	Suspicious.
755	Do. do. E do. ...	9, Do.	Unfit.
756	Do. do. E do. ...	14, Mazagon Road	Fair.
757	Do. do. B do. ...	Roadside Gun Carriage Street	Unfit.
758	Do. do. B do. ...	117—119, Chaupa Wadi	
759	Do. do. E do. ...	24, Mazagon Road	Suspicious.
760	Do. do. E do. ...	23, Mount Road (North)	Unfit.
761	Do. do. A do. ...	Do. (South)	
762	Do. do. A do. ...	38-44, Nowroji Road	
763	Do. do. B do. ...	89-95, Old Hanuman Lane	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
764	Malaria Inspector, D Ward ...	2, Forjett Street	
765	Do. do. B do. ...	138-146, Old Hanuman Lane	
766	Do. do. E do. ...	69, Mazagon Road (South)	
767	Do. do. E do. ...	Do. (Ice Factory)	
768	Do. do. E do. ...	24, Do. (South-West)	
769	Do. do. A do. ...	1, Colaba Causeway	
770	Do. do. E do. ...	644, Chinchpokli Road	
771	Do. do. E do. ...	43-4-40, Duncan Road	
772	Do. do. E do. ...	766A, Parel Road	
773	Do. do. D do. ...	522, Tardeo Road	Unfit.
774	Do. do. B do. ...	189-203, Kalbadevi Road	
775	Do. do. A do. ...	395A, Arthur Bunder Road	
776	Do. do. D do. ...	4-5, Tardeo Road	
777	Do. do. B do. ...	171-179, Kalbadevi Road	
778	Do. do. A do. ...	395, Colaba Road	
779	Do. do. E do. ...	41-44, Foras Road	
780	Do. do. E do. ...	1, Grant Road	
781	Do. do. E do. ...	488-492, Falkland Road	
782	Deputy Health Officer, F do. ...	85-85A, Elphinstone Road	
783	Malaria Inspector, D do. ...	522, Tardeo Road	Suspicious.
784	Do. do. B do. ...	Khoja Burial Ground, Sandhurst Road	
785	Do. do. A do. ...	Victoria Bunder Road	
786	Do. do. E do. ...	55-55A, Tardeo Road (West)	
787	Do. do. E do. ...	Do. (North)	
788	Do. do. E do. ...	89, Tardeo Road	Unfit.
789	Do. do. E do. ...	9, Balaram Street	
790	Do. do. E do. ...	17, Do.	
791	Do. do. E do. ...	89, Gilder Street	
792	Do. do. B do. ...	118-120, Samuel Street	
793	Do. do. D do. ...	266-270, Girgaum Back Road	Fair.
794	Do. do. D do. ...	55, Gowalia Tank Road	Unfit.
795	Do. do. A do. ...	247, Colaba Road	Objectionable.
796	Do. do. E do. ...	3KK, Sleater Road	
797	Do. do. E do. ...	3G, Do.	
798	Do. do. E do. ...	Grant Road Railway Station	
799	Do. do. D do. ...	87, Gowalia Tank Road	Unfit.
800	Do. do. E do. ...	65, Tardeo Road	
801	Do. do. E do. ...	2-75, Do.	
802	Do. do. E do. ...	67-69 Do.	
803	Do. do. A do. ...	B. B. & C. I. Railway Compound	Fair.
804	Do. do. D do. ...	10-12, 1st Parsiwada	Unfit.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
805	Malaria Inspector, E Ward ...	1, Tardeo Road	Unfit.
806	Do. do. E do. ...	9-13, Arthur Road	
807	Do. do. E do. ...	1-8, Tardeo Road	
808	Do. do. A do. ...	B. B. & C. I. Railway Compound near Station Building.	Fair.
809	Do. do. E do. ...	677, Tardeo Road	Unfit.
810	Do. do. E do. ...	679 (23), Tardeo Road	
811	Do. do. E do. ...	679, Tardeo Road	
812	Do. do. D do. ...	56A, Nepean Sea Road	Fit.
813	Do. do. A do. ...	21-23, Pasta Lane	Unfit.
814	Do. do. E do. ...	87-105, Ghorapdeo Road (North-East)	
815	Do. do. E do. ...	87-105, Ghorapdeo Road, (South-East.)	
816	Do. do. E do. ...	167, Ghorapdeo Road	
817	Do. do. A do. ...	96, Colaba Road	
818	Do. do D do. ...	1, Wilderness Road	Fair.
819	Do. do. E do. ...	35-37, Ghorapdeo Road, (North-East)	Unfit.
820	Do. do. E do. ...	35-37, Do.	
821	Do. do. E do. ...	3, Bellasis Road	
822	Do. do. D do. ...	9, Khambata Lane	
823	Do. do. A do. ...	192 A, Colaba Road	
824	Superintendent of Licenses. ...	2-4, 2nd Panjrapole Street	
825	Malaria Inspector, E Ward...	472, Falkland Road	Suspicious.
826	Do. do. E do. ...	24, Gunpowder Road	Objectionable.
827	Do. do. E do. ...	1315, Do.	
828	Do. do. A do. ...	230-236, Mody Street	Unfit.
829	Do. do. D do. ...	112, Khetwadi Main Road...	
830	Do. do. F do. ...	9a, 9b, and 9 and 9bb, Naigaum Cross Road ...	
831	Do. do. E do. ...	Gilder Street Cabin Temple	
832	Do. do. E do. ...	8-10, Arab Lane	
833	Do. do. E do. ...	18, Do.	
834	Do. do. D do. ...	South of Imperial Cinema	Objectionable.
835	Do. do. B do. ...	98, Samuel Street	Unfit.
836	Do. do. E do. ...	67-69, Tardeo Road	
837	Do. do. E do. ...	55-55 A Do.	
838	Do. do. E do. ...	Sleater Road Agiari	
839	Do. do. D do. ...	7, 1st Parsiwada	
840	Do. do. F do. ...	155a, 155b, 155bb, Dadar Road	
841	Do. do. E do. ...	100, Foras Road	
842	Do. do. E do. ...	Baliwala Theatre, Falkland Road	
843	Do. do. E do. ...	1-3, Grant Road	
844	Do. do. B do. ...	111-117, Samuel Street	
845	Do. do. D do. ...	67-69, Banganga	

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from			Situated at	Opinion as to potability from chemical examination.
846	Malaria	Inspector,	E Ward ...	18-20, Love Lane (South)	Objectionable.
847	Do.	do.	E do. ...	Do. (West)	Suspicious.
848	Do.	do.	E do. ...	2, Mount Road	Unfit.
849	Do.	do.	D do. ...	40 (5), Walkeshwar Road	Fit.
850	Do.	do.	E do. ...	21, Love Lane	Unfit.
851	Do.	do.	E do. ...	88, Mount Road	Objectionable.
852	Do.	do.	E do. ...	15-19, Love Lane	Fair.
853	Do.	do.	A do. ...	31-33, Gola Lane	Unfit.
854	Do.	do.	D do. ...	1, Hughes Road	Objectionable.
855	Do.	do.	B do. ...	100-104, Samuel Street	
856	Do.	do.	E do. ...	5, Love Lane, (North-East)	
857	Do.	do.	E do. ...	6, Hansraj Lane	Unfit.
858	Do.	do.	E do. ...	5, Love Lane near Building	
859	Do.	do.	A do. ...	190-194, Mody Street	
860	Do.	do.	D do. ...	7, Walkeshwar Road	Objectionable.
861	Do.	do.	B do. ...	283-293, Janjikar Street	Unfit.
862	Do.	do.	D do. ...	1 A, Gowalia Tank Road	
863	Do.	do.	E do. ...	9, Victoria Road	
864	Do.	do.	E do. ...	5-10, Nesbit Road	
865	Do.	do.	E do. ...	10-18, Do.	
866	Do.	do.	D do. ...	264, Girgaum Back Road	Objectionable.
867	Do.	do.	B do. ...	148, Samuel Street	Unfit.
868	Do.	do.	E do. ...	1, Victoria Road Cross Lane III	
869	Do.	do.	E do. ...	25, 1st Parel Road	
870	Do.	do.	E do. ...	14-16, Ghorapdeo Road	
871	Do.	do.	D do. ...	107 A, Gowalia Tank Road	
872	Do.	do.	E do. ...	1-14, Wari Bunder Road (South-East)	
873	Do.	do.	E do. ...	Do. (North-West)... ...	
874	Do.	do.	E do. ...	Do. (South-West) ...	
875	Do.	do.	D do. ...	38 (1-6), Warden Road	
876	Do.	do.	E do. ...	180-90, Parel Road	
877	Do.	do.	E do. ...	12, Tank Bunder Road	
878	Do.	do.	E do. ...	2, Do.	
879	Do.	do.	E do. ...	235, B & C, Bellasis Road	
880	Do.	do.	D do. ...	57 (13), Warden Road	
881	Do.	do.	D do. ...	516-518, Girgaum Road	Objectionable.
882	Do.	do.	D do. ...	1, Nikdawri Lane	Fair.
883	Do.	do.	A do. ...	2 A, Karwar Street	Unfit.
884	Do.	do.	D do. ...	10 A-11, Girgaum Breach Candy Road	Objectionable.
885	Do.	do.	D do. ...	13, Benham Hall Lane	Fair.
886	Do.	do.	C do. ...	49, Popatwadi	Slightly objectionable.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to potability from chemical examination.
887	Malaria Inspector, F Ward ...	182-182A, Naigaum Cross Road	Unfit.
888	Do. do. C do. ...	29-31, Trinity Street	Objectionable.
889	Do. do D do. ...	25, Warden Road	Fair.
890	Do. do. D do. ...	15, Do.	Fit.
891	Do. do. A do. ...	177-179, Modi Street	Unfit.
892	Do. do. C do. ...	17, Wellington Street	
893	Do. do. D do. ...	47, Gowalia Tank Road	
894	Do. do. D do. ...	14-20, Pedder Road	Fair.
895	Do. do. C do. ...	2 4, 4th Marine Street	Fair.
896	Do. do. C do. ...	45, Do.	Unfit.
897	Do. do. D do. ...	43, Warden Road	
898	Do. do. D do. ...	41, Do.	
899	Do. do. B do. ...	74-78 Samuel Street...	
900	Do. do. D do. ...	27, Warden Road	Suitable.
901	Do. do. C do. ...	10-12, 4th Marine Street	Unfit.
902	Do. do. A do. ...	108-110 Mint Road	Fair.
903	Do. do. D do. ...	1A, Queen's Road	Fair.
904	Do do. A do. ...	136-138 Mint Road	Unfit.
905	Do. do. C do. ...	39, 2nd Marine Street	
906	Do. do. D do. ...	8, Pedder Road	
907	Do. do. B do. ...	75-79, Parel Road	
908	Do. do. E do. ...	439-2, Falkland Road	
909	Do. do. D do. ...	1-4, Charni Road, South	Objectionable.
910	Do. do. D do. ...	1-4, Do. West	Unfit.
911	Do. do. C do. ...	20, 3rd Marine Street	
912	Do. do. D do. ...	16, Benham Hall Lane	
913	Do. do. D do. ...	Gamdevi Road No. 69	
914	Do. do. E do. ...	1, Victoria 1st Cross Lane	
915	Do. do. C do. ...	6, 1st Marine Cross Lane	
916	Do. do. C do. ...	3, Vanka Moholla	Fair.
917	Do. do. E do. ...	22-24, Love Lane	Suspicious.
918	Do. do. D do. ...	1-and-9-11, French Road	Objectionable.
919	Do. do. D do. ...	9-11, Do.	Unfit.
920	Do. do. D do. ...	16-18, (1) Girgaum Back Road	Objectionable.
921	Do. do. D do. ...	182-184, (2) Do.	
922	Do. do. E do. ...	12-14, Love Lane	Unfit.
923	Do. do. E do. ...	20, Nesbit Road	Slightly Objectionable.
924	Do. do. C do. ...	8, Bhuleshwar Road	Unfit.
925	Do. do. D do. ...	4, Mangalwadi	
926	Do. do D do. ...	67-69, Charni Road	Objectionable.
927	Do. do. A do. ...	223, Hornby Road	Unfit.

STATEMENT SHOWING THE NUMBER OF WELL WATERS EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913—*contd.*

No.	Received from	Situated at	Opinion as to Potability from Chemical examination.
928	Malaria Inspector, E Ward ..	Victoria Gardens near Office	Unfit.
929	Do. do. B do. ...	155-163, New Hanuman Lane	Objectionable.
930	Do. do. D do. ...	8, Borbhat Lane	Fair.
931	Do. do. D do. ...	92, (2) Thakurdwar Road	Fit.
932	Do. do. E do. ...	Victoria Gardens	Unfit.
933	Do. do. C do. ...	17-19, Girgaum Back Road...	Fair.
934	Do. do. A do. ...	223, Hornby Road	Objectionable.
935	Do. do. A do. ...	269, Do.	Fit.
936	Do. do. C do. ...	10, Barrows Lane	Unfit.
937	Do. do. E do. ...	26, Haines Road	
938	Do. do. D do. ...	2A, Kelewadi	Objectionable.
939	Do. do. D do. ...	623-625, Girgaum Road	Unfit.
940	Do. do. A do. ...	3, Hornby Road	Fair.
941	Do. do. C do. ...	170, (6) Bhuleshwar Road	Unfit.
942	Do. do. D do. ...	70, (1 f 1 a) Kandewadi	Objectionable.
943	Do. do. E do. ...	1, Gilder Lane	Unfit.
944	Do. do. C do. ...	13, Tadwadi	Fair.
945	Do. do. D do. ...	99-121, Kandewadi	Unfit.
946	Do. do. C do. ...	12-13, Karelwadi	
947	Do. do. D do. ...	8-10, Harkness Road...	Objectionable.
948	Do. do. C do. ...	160, Kalbadevi Road	Unfit.
949	Do. do. D do. ...	576-578, Girgaum Road	
950	Do. do. D do. ...	16-18, Girgaum Road	Objectionable.
951	Do. do. C do. ...	5-7, Kolbhat Street	Unfit.
952	Do. do. D do. ...	87,95, Kandewadi	
953	Do. do. C do. ...	24, Vanka Moholla	
954	Do. do. C do. ...	8, Cavel	
955	Do. do. D do. ...	1, Thakurdwar Road	
956	Do. do. C do. ...	128-132, (1) Girgaum Road...	
957	Do. do. D do. ...	1A, Charni Road	
958	Do. do. C do. ...	1, Hargovan Desai Wadi	
959	Do. do. D do. ...	9, 2nd Parsiwada	
960	Do. do. E do. ...	313, (A) Ripon Road	
961	Do. do. D do. ...	6-8, Nepean Sea Road	Fair.
962	Do. do. B do. ...	44-52, Kazi Sayad Street	Unfit.
963	Do. do. C do. ...	14-16, 3rd Marine Street	
964	Do. do. C do. ...	10, Tadwadi	
965	Do. do. C do. ...	Kolbhat Street	
966	Do. do. D do. ...	86, Gowalia Tank Road	Fit.
967	Do. do. A do. ...	T. I. Building, Hornby Road	
968	Do. do. A do. ...	47, Wandby Road	
969	Do. do. A do. ...	Road side behind High Court, Mayo Road ...	

The following samples of waters collected from Tanks were examined:—

1. Masonry Tank at No. 3, Warden Road.
2. Tank at 98-99, Sankli Street.
3. „ „ 10, Naigaum Cross Road.
4. „ „ 663, Tardeo Road.
5. „ „ 900-902, Parel Road.
6. „ „ 2 „ „
7. „ „ 26, Haines Road.
8. „ „ 2-24, Babula Tank Road.

Results—

All unfit for potable purposes.

APPENDIX V.

STATEMENT SHOWING THE NUMBER OF SAMPLES EXAMINED BACTERIOLOGICALLY, EXCLUDING WATER SAMPLES IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913.

| Received from | MILK. | | |

APPENDIX VI.

STATEMENT SHOWING THE NUMBER OF WATER SAMPLES EXAMINED BACTERIOLOGICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1913.

Received from	Examined for-						
	Microbes per c.c.	Cholera vibrio.	B. Typhosus.	Gartners.	B. E. Sporogenes.	B. Coli (lactose-fermenters.)	Total.
Executive Health Officer	.....	1	1	1	1	1	5
Municipal Analyst	193	194	193	193	193	193	1,159
Deputy Health Officer, A Ward	.....	2	1	.....	.....	.....	3
Do. B „	.....	16	17	.....	.....	.....	33
Do. C „	.....	22	29	.....	.....	.....	51
Do. D „	1	4	2	1	1	1	10
Do. E „	.....	22	76	.....	.....	.....	98
Do. F „	.....	8	5	.....	.....	.....	13
Do. G „	.....	8	20	.....	.....	.....	28
Total ...	194	277	344	195	195	195	1,400

APPENDIX VII.

STATEMENT SHOWING THE NUMBERS OF WATER SAMPLES EXAMINED BACTERIOLOGICALLY FOR PATHOGENIC MICROBES AND IN WHICH THE SAME WERE DETECTED DURING THE YEAR 1913 IN THE MUNICIPAL LABORATORY.

Cholera Vibrio.		B. Typhosus.		B. E. Sporogenes.		B. Coli (Lactose Fermenters).		Gartners.		Remarks.
A.	B.	A.	B.	A.	B.	A.	B.	A.	B.	
277	*Nil*	344	*Nil*	195	*Nil*	195	178	195	*Nil*	A. = Total number of samples examined. B. = Total number of samples in which detected.

The Annual Report of the Superintendent of Vaccination for 1913.

Superintendent.

I was in charge of the Department throughout the year.

Vaccination Establishment.

The establishment consists of the Superintendent, the Assistant Superintendent, 10 Vaccinators, 5 Clerks, 17 Karkoons, 3 Peons and 15 Coolies.

Vaccine operations with results during 1904-1913.

2. The following statement gives the number of *persons* Primarily vaccinated and Re-vaccinated during 1913 and the preceding nine years, with the number of persons successful and the percentage of success :—

Year.	Primary Vaccinations.			Re-vaccinations.			Total Number of persons vaccinated.		
	Number of persons vaccinated.	Number successful.	Percentage of success.	Number of persons re-vaccinated.	Number successful.	Percentage of success.	Number of persons vaccinated and re-vaccinated.	Number successful.	Percentage of success.
1904	17,545	15,994	91·16	3,854	289	7·50	21,399	16,283	76·09
1905	18,777	15,935	84·95	20,571	780	3·79	39,348	16,732	42·52
1906	17,086	15,719	92·00	1,744	178	10·21	18,830	15,897	84·42
1907	16,720	15,355	91·84	1,282	85	6·63	18,002	15,440	85·77
1908	19,122	16,801	87·86	4,633	257	5·55	23,755	17,058	71·80
1909	18,447	16,536	88·56	10,669	116	1·09	29,116	16,452	56·50
1910	17,366	15,371	88·56	23,600	70	·30	40,956	15,441	37·70
1911	19,312	17,819	92·27	18,786	86	·46	38,098	17,905	47·00
1912	20,946	18,878	90·13	17,094	201	1·18	38,040	19,079	50·13
1913	20,877	18,559	88·90	15,189	63	·41	36,066	18,622	51·62

It will be observed that the total number of persons operated upon during the year was 36,066 against 38,040 in 1912, of which 20,877 were Primary Vaccinations, being 69 less than in 1912 and 15,189 were Re-vaccinations being 1,905 less than in 1912.

Of the Primary Vaccinations 18,559 were successful, the percentage of success being 88·90; this, however, is raised to 96·51, if 1,647 "Unknown" cases be left out. Of the Re-vaccinations 63 were successful, yielding a percentage of ·41, which, however, is raised to 49·61 if 15,062 "Unknown" cases be excluded, calculated on the total number of persons vaccinated, the percentage of success works out to 51·62.

Primary Vaccination Results by Age-periods.

3. The following Table shows the results in Primary Vaccinations by age-periods :—

Under 1 year.			Between 1 and 6 years.			Above 6 years.			Total results.			Total operations.
Successful.	Unsuccessful.	Unknown.	Successful.	Unsuccessful.	Unknown.	Successful.	Unsuccessful.	Unknown.	Successful.	Unsuccessful.	Unknown.	
14,911 Ratio per mille of population. 15·22	482	1,087	3,503	176	478	149	18	82	18,563 Ratio per mille of population. 18·96	671	1,647	20,886

Vaccination by others than the Vaccination Staff.

4. The subjoined Table shows the vaccinations performed by Private Medical Practitioners, the District Registrars of the Health Department, and the Medical Officers in charge of the two Jails and the Colaba Lunatic Asylum :—

	Primary Vaccinations.							Re-vaccinations.		
				Successful.						
	Males.	Females.	Total.	Under 1 Year.	1 and 6 Years.	All Ages.	Unknown.	Total.	Successful.	Unknown.
District Registrars. ...	9	3	12	5	3	...	4	...	...	...
P. M. Practitioners ...	...	1	1	1	...	...	...	1,169	...	1,169
The two Jails... ...	8	2	10	7	3	...	...	4,070	673	...
Colaba Lunatic Asylum	...	...	...	...	...	...	...	...	...	...

5. Table showing the particulars of Primary and Re-Vaccinations verified by Inspecting Officers. Inspection of Vaccinations.

Total number of persons vaccinated.		Total number inspected.				Percentage of inspection to total number vaccinated.				Percentage of cases found successful to total number inspected.				Percentage of success reported by Vaccinators.	
		By the Superintendent.		By the Asstt. Supdt. and the Head Vaccinator.		By the Superintendent.		By the Asstt. Supdt. and the Head Vaccinator.		By the Superintendent.		By the Asstt. Supdt. and the Head Vaccinator.			
P.	R.	P.	R.	P.	R.	P.	R.	P.	R.	P.	R.	P.	R.	P.	R.
20,877	15,189	S. F. (4,923+73) =5,056	S. F. (14+13) =31	S. F. (10,486+297) =11,382	S. F. (9+17) =26	24·21	·20	54·04	·17	98·56	58·06	97·37	34·62	88·90	·41

6. The Table below shows by months number of calves inoculated, and the number rejected after inoculation owing to sickness; as also the number of calves scraped for emulsion during the year and the number used for calf-to-arm Vaccination:— Heifers inoculated, scraped for emulsion, &c.

Heifers.	1913. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Number inoculated...	28	29	29	35	34	31	35	33	30	34	32	35	385
Number successful ...	25	25	29	28	29	28	32	29	30	31	30	35	351
Number unsuccessful ...	...	4	...	7	...	...	...	1	...	...	...	...	12
Number rejected after inoculation owing to sickness	3	...	...	...	5	3	3	3	...	3	2	...	22
Number inoculated for emulsion	16	16	18	23	23	21	21	19	19	23	20	22	241
Number inoculated for calf-to-arm vaccination ...	12	13	11	12	11	10	14	14	11	11	12	13	144

7. The following statement shows the proceeds from the sale of lymph, the fees realized from Vaccination at private places, &c., during the year under report:— Proceeds from the sale of lymph and from other sources.

Amount realized by the sale of lymph.	Municipal moiety of the fees from private vaccination.	Municipal fee (moiety only) for vaccination instruction to Medical Students.	Municipal fee for giving vaccination extracts, &c.	Total.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
4,501 0 0	656 4 0	375 0 0	95 0 0	5,627 4 0

8. The cost of each successful vaccine operation including all charges was Rs. 1-8-2 against Rs. 1-7-5 in the preceding year; if the amount realised by the sale of lymph, by fees for private vaccination, etc., (Rs. 5,627-4-0) be deducted from the total expenditure, the cost works out Rs. 1-3-5. Cost of single operation.

9. If calculated on the total number of vaccine operations, the cost of each operation, after deducting the proceeds from the sale of lymph, from private vaccinations, etc., comes to Rs. 0-10-0.

10. During the year under report 355 Certificates of postponement of vaccination of childern were granted. Postponement Certificates.

11. There were no prosecutions during the year, either for neglect of vaccination, or for neglect of inspection of the result. Prosecution under the Vaccination Act.

Work done with different kinds of lymph.

12. The following Table shows the different kinds of lymph used, the operations done with each kind and the comparative results obtained during the year 1913:—

Kind of Lymph.	Number of operations.		Successful cases excluding the "Unknown."		"Unknown" cases.		Percentage of success excluding the "Unknown."	
	P.	R.	P.	R.	P.	R.	P.	R.
(a) Human	...	...	...	...	...	...	...	...
(b) Animal	4,796	1,397	4,337	51	322	1,302	98·05	55·68
(c) Glycerinated	16,090	13,792	14,181	12	1,325	13,760	96·04	87·50
Total Operations ...	20,886	15,189	18,568	63	1,647	15,062	96·51	49·61

12 A. DeLaitte Gas Company's Refrigerator is now provided and is ready for use.

Instruction in Vaccination.

13. During the year under report 9 Military Medical pupils, 50 Civil Medical and 16 other Students attended the different Public Vaccine Stations in the City for receiving practical instruction in Vaccination.

Small-pox.

14. During the year under report the total number of deaths reported from Small-pox was 212 as against 979 in the year preceding.

Vaccination of Pilgrims to the Haj.

The Haji Season commenced about the beginning of May and ended in October 1913.

The total number who left Bombay, for the Haj during this period, was 15,319. Of these 11,198 were vaccinated in Bombay before embarkation, *i.e.*, 73·10 per cent.

The following Table shows the number of males and females and the number of Primary Vaccinations and Re-vaccinations performed amongst the Pilgrims by the Special Staff that was engaged for the purpose (*viz.*, 1 Vaccinator, 1 Clerk, 1 Coolie and 1 Nurse).

——	Males.	Females.	Total.
Primary Vaccinations	62	46	108
Re-vaccinations	9,024	2,066	11,090
Total number ...	9,086	2,112	11,198

The female pilgrims were vaccinated by Nurse, Mrs. Rachelbai.

Ill-effects of Vaccination.

No serious ill-effects following Vaccination were observed or brought to notice during the year.

An interesting case of delayed healing was brought to my notice by a Medical Practitioner; this case healed well after some time, under medical treatment.

Vaccination in Bandra and Kurla.

The following Table shows the Vaccination work done in the Bandra and Kurla Circles in 1913 compared with that done in 1912:—

Vaccination Circles.	Population according to the Census of 1911.	Year.	Children successfully vaccinated. Under 1 year.	Under 6 years.	Children available for vaccination.	Persons primarily vaccinated.	Persons re-vaccinated.	Total number of persons operated upon.
Bandra	22,792	1912	198	131	535	417	280	697
		1913	195	84	450	353	97	450
Kurla	14,932	1912	29	28	103	84	.....	84
		1913	72	30	66	213	1	214

J. S. NERURKER, B.Sc., L.M.S., D.P.H,
Superintendent of Vaccination,
Bombay.

BOMBAY, 26*th February* 1914.

Report of the Conservancy Superintendent.

The appointment of Superintendent of Conservancy was sanctioned from 1st April 1913 but the actual work of checking commenced on 21st April 1913 and from that date up to 31st March 1914, 800 checks were made at stables and depôts. (This does not include the checking of the work done by individual men in their beats). The former embraces the checking of musters at Ward stables and depôts and in the sections, the checking of receipts of hay and grain, the distribution of ration, the shoeing of bullocks, the checking of stores, the checking of the work done by the House Drain Staff. In connection with the checking of musters, the results are extremely satisfactory. At the depôts the only one now a bit backwards is the 5-30 a.m. one at Sonapur and this is due to a considerable extent to the distance that the halalkhors live from the depôt. The stable and section musters are very good, the absentees are very few and they are only a couple of minutes or so. It must be borne in mind that the 15 minutes grace which was allowed before has been withdrawn. The hay and grain checks have resulted in the increase from 4 (in some cases less than 4) to 5 measures of soaked grain per pair being given.

In connection with the shoeing of bullocks raids from time to time were made on the farriers and their work checked, with the result that they now use 6 sets per day against less than 3 formerly. The checking of the House Drain work has resulted in the whole system being revised. Some House Drain Inspectors had as much as a dozen books and even with this number could not say what work had been done the previous day. The work has now been much simplified and the new books are being printed.

Regarding the checking of individual work I was responsible for the reduction of 90 men. No complaints have been made regarding this, the work has not suffered and the Municipality has saved over Rs. 12,000 a year. This is a brief outline of my work.

During the year, 402 special reports were made regarding irregularities found or improvements suggested. A noticeable event during the year was the strike of halalkhors and the threatened strike of scavengers. Its history is well known to the Health Officer and no further reference is necessary.

In connection with my appointment the Health Officer's orders were that I should do my work without fear or favour. I have tried to and I trust the Health Officer thinks so.

The year has been one of considerable experience to me and perhaps a few remarks may not be out of place.

For one man to supervise the Health Department work of a City like Bombay, with a menial staff of about 7,000, scattered over an area of 22 sq. miles, mustering at 24 night-soil depôts, 11 stables and 32 sections, where 160 musters are called daily, the task seems an impossible one, and in attempting it, the little time that can be devoted to each and the long interval between one visit and the next, offers an ample opportunity for those whose duty it is to supervise the actual work to indulge in idleness and trickery.

At the same time I am convinced that an increase in the number of supervisors is not all that is necessary. The pay has a great deal to do with it. A high paid Officer with enlarged powers is more capable of commanding attention and respect than several lower paid ones.

A. H. UNDERDOWN,
Chief Inspector.

BOMBAY, *14th April* 1914.

Meteorological Data (Government Observatory, Colaba), Latitude 18°-53'-45", North, Longitude 72°-48'-56", East.

MONTHS.	BAROMETER.	READING OF THERMOMETER.				Mean Maximum Solar Radiation.	Difference between Dew-point, Temperature and Mean Air Temperature.	Degree of Humidity, complete Saturation being 100.	Prevailing Direction of Wind.	RAINFALL.		
	Mean Daily Readings.	Maximum.	Minimum.	Mean Daily Range.	Mean Daily Value.					Number of Days on which Rain fell.	Total Fall of Rain during the Month.	Maximum Fall of Rain.
1913.	In.	°	°	°	°	°	°				In.	In.
January	29·969	84·5	65·4	11·4	75·7	122·2	12·5	66	N	.....	.....	.....
February	·909	84·6	64·8	9·6	76·5	120·7	11·4	69	N. N. W.	.....	.....	.....
March	·868	86·0	69·3	9·5	77·6	121·5	10·5	71	N. W.	.....	.....	.....
April	·785	89·3	72·5	8·5	82·7	128·3	8·5	76	W. N. W.	.....	.....	.....
May	·759	92·4	79·4	7·6	86·5	136·3	10·1	72	W.	.....	.....	.....
June...	·633	93·0	74·8	5·2	83·7	122·8	6·1	82	W. S. W.	21	25·81	5·15
July	·659	86·6	74·8	4·7	81·5	120·3	4·5	86	W. S. W.	30	33·58	5·50
August	·743	85·6	75·7	4·6	81·4	123·5	6·3	82	W. S. W.	22	3·47	0·75
September	·807	87·1	76·0	5·9	81·2	127·4	5·9	83	W.	16	5·75	2·01
October	·848	89·4	75·0	8·5	82·7	133·9	7·6	78	N. N. W.	5	2·35	1·50
November	·923	89·2	70·5	11·3	79·8	133·7	11·1	70	N.	.....	.....	.....
December	·964	87·0	64·7	10·6	76·6	128·1	10·8	70	N.	.....	.....	.....

TABLE showing the Population and the Number of Births and the Birth-rate by Sex and Section in 1913.

1	2	3			4			5			6	7	8	9		
Ward.	Section.	Population according to the Census of 1911.			Number of Births registered.			Ratio of Births per 1,000 of population.			Number of male births to 100 female births.	Excess of births over deaths per 1,000 of Population.	Excess of deaths over births per 1,000 of Population.	Mean ratio of births per 1,000 of population during the previous 5 years.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.				Males.	Females.	Total.
A	Upper Colaba	669	688	1,357	46	49	95	53·92	71·22	61·01	93·87	25·04	.....	28·12	53·14	31·50
	Middle and Lower Colaba	13,514	6,165	19,679	147	123	270	10·87	19·95	13·72	119·51		17·07	11·79	24·68	16·60
	Fort, South	2,825	637	3,462	7	5	12	2·47	7·84	3·46	140.00		3·08	3·29	12·51	5·06
	Fort, North	15,564	9,836	25,400	262	228	490	16·83	23·81	19·29	114·91		14·72	16·03	23·33	18·93
	Esplanade	12,544	5,217	17,761	103	92	195	8·21	17·63	10·97	111·95		24·09	9·82	19·51	12·68
B	Mandvi	28,317	9,885	38,202	319	191	510	9·39	19·32	12·34	114·65		23·52	10·45	17·41	12·93
	Chukla	15,768	8,463	24,231	240	221	461	15·22	26·11	19·02	108·59		17·95	15·70	27·49	19·88
	Umarkhadi	28,491	17,188	45,679	536	507	1,043	18·81	29·49	22·83	105·71		20·14	18·79	27·48	22·18
	Dongri	16,985	10,261	27,246	244	287	531	14·36	27·95	19·48	85·01		17·21	20·81	23·93	22·16
C	Market	22,011	8,161	30,172	152	152	304	6·90	18·63	10·07	100·00		16·24	7·48	17·88	10·49
	Dhobi Talao	24,670	14,014	38,684	428	372	800	17·34	26·54	20·68	150·05		7·78	16·57	26·84	20·38
	Panaswadi	16,126	9,278	27,403	279	279	558	15·39	30·07	20·36	100·00		5·43	13·39	22·00	16·45
	Bhuleshwar	24,713	11,746	36,459	301	263	564	12·17	22·39	15·46	114·48		17·69	11·70	21·39	14·94
	Khara Talao	15,052	7,927	22,979	220	255	475	14·61	32·16	20·67	86·26		18·79	16·82	26·99	20·51
	Kumbharwada	17,908	9,795	27,703	296	263	559	16·52	26·85	20·17	112·54		15·37	15·96	28·95	18·86
D	Khetwadi	19,850	12,087	31,937	360	306	666	18·13	25·31	20·85	117·64		6·79	15·98	24·11	18·98
	Girgaum	19,156	11,623	30,779	316	293	609	16·49	25·20	19·78	107·84		8·40	15·19	23·12	18·24
	Chowpati	7,088	4,809	11,897	116	119	235	16·36	27·61	20·61	97·47		7·48	13·81	19·65	16·23
	Walkeshwar	6,833	3,757	10,590	102	106	208	14·81	28·21	19·54	96·22	·28	.....	12·40	22·49	16·84
	Mahalakshmi	16,608	9,694	26,302	267	300	567	16·07	30·94	21·55	89·00		5·24	16·17	26·91	20·22
E	Mazagon	19,398	10,677	30,075	368	379	747	18·97	35·49	24·83	97·09		11·67	21·32	33·31	25·88
	Tarwadi	18,141	10,283	28,424	429	426	855	23·64	41·42	30·08	100·70		21·95	23·01	41·93	29·99
	2nd Nagpada	13,521	8,379	21,700	282	245	527	21·16	29·23	24·28	115·10		16·81	21·37	29·08	24·51
	Kamathipura	22,323	14,228	36,751	380	365	745	16·87	25·65	20·27	104·10		19·94	20·25	27·82	23·33
	Tardeo	17,241	10,517	27,758	358	306	664	20·76	29·09	23·92	116·99		17·68	21·48	29·08	24·55
	Byculla	47,072	27,676	75,348	910	881	1,791	19·08	31·83	23·76	103·29		13·90	26·10	47·27	33·96
	1st Nagpada	4,183	2,232	6,414	76	78	154	18·17	34·94	24·00	97·43		3·42	18·57	34·79	24·08
F	Parel	28,858	16,616	45,474	590	528	1,118	20·44	31·77	24·58	111·74		6·16	19·05	29·49	23·01
	Sewri	11,841	7,826	19,067	234	220	454	19·76	30·44	23·81	106·36		8·39	19·94	30·20	23·98
	Sion	18,463	12,317	30,680	390	399	789	21·12	32·65	25·71	97·74		5·76	22·98	31·40	26·35
G	Mahim	18,271	12,221	30,492	446	506	952	24·41	41·40	31·22	88·14		3·50	24·90	33·22	28·28
	Worli	58,478	31,188	89,611	901	894	1,795	15·40	28·71	20·03	100·78		11·49	19·71	30·83	23·88
	Harbour, Docks, Railways and Homeless	39,963	5,016	44,979	1	.....	1	·02	.....	·02	.....		1·93	.....	.....	·02
	Total	640,288	339,157	979,445	10,006	9,038	19,044	15·63	28·41	20·05	103·81	.....	12·41	16·86	28·32	21·02

TABLE of Deaths and the Death-rate from some of the Principal Diseases by Sections in 1913.

1	2	3	4	5			6			7	8																9		
Ward.	SECTION.	Area in square miles.	Average population, per square mile, according to Census population of 1911.	Population by the Census of 1911.			Number of deaths registered.			Number of males to 100 females among the deaths.	Death-rate per 1,000 of population from																Mean Ratio of deaths per 1,000 of population during the previous 5 years.		
				Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Measles.	Plague.	Malaria.	Enteric.	Other Forms.	Diarrhœa and Dysentery.	Tuberculosis.	Phthisis.	Other Respiratory Diseases.	Injuries.	All other causes.	All Causes. Males.	All Causes. Females.	All Causes. Total.	Males.	Females.	Total.
A.	Upper Colaba ...	·22	7,077	869	688	1,557	32	24	56	133·33	...	...	...	1·28	·64	...	1·92	5·85	4·49	...	9·63	1·28	12·84	36·82	34·88	35·96	26·57	18·47	21·16
	Middle and Lower Colaba	·45	43,731	13,514	6,165	19,679	347	259	606	133·97	·15	...	·05	6·96	·50	·40	2·38	2·28	·20	·96	6·96	·55	9·35	25·63	42·01	30·29	26·56	39·54	30·88
	Fort, South	·21	16,485	2,825	637	3,462	28	12	40	233·33	...	...	...	·67	·86	·86	1·44	·86	·86	...	2·88	·57	2·59	9·91	18·85	11·55	16·82	19·47	17·32
	Fort, North	·21	120,952	15,564	9,836	25,400	501	363	864	138·01	·03	·11	·03	2·51	·78	·43	5·80	2·55	1·06	1·55	7·67	·90	12·99	32·18	36·90	34·01	36·41	44·46	39·59
	Esplanade	1·04	17,077	12,544	5,217	17,761	445	173	618	260·00	·11	·16	...	·67	1·74	·16	6·53	4·78	2·13	1·29	7·37	2·87	7·20	35·47	34·11	35·07	40·66	51·38	50·16
B.	Mandvi	·26	127,700	23,317	9,885	33,202	736	455	1,191	161·75	·09	·12	·03	4·06	·48	·12	3·04	2·40	·54	2·40	12·46	·60	9·48	31·68	46·02	35·87	36·98	44·18	39·85
	Chukla	·08	302,887	16,768	8,463	24,231	477	419	896	113·84	·06	...	·06	2·97	·28	·04	1·60	2·80	·70	4·25	10·27	·53	13·74	30·25	49·50	36·07	44·92	54·58	41·89
	Umerkhadi	·16	285,493	28,491	17,188	45,679	1,119	844	1,963	132·58	·17	·10	·04	2·88	·26	·08	3·19	3·94	·65	3·15	12·71	·59	15·14	39·27	49·10	42·97	43·15	53·44	47·16
	Dongri	·45	60,646	16,585	10,961	27,546	580	420	1,000	138·09	·22	·25	·22	4·22	·44	·07	4·44	3·15	·69	1·46	10·97	·77	9·76	34·14	40·98	36·70	43·16	45·40	43·26
C.	Market	·14	215,514	22,011	8,161	30,172	462	332	794	139·15	·33	·09	·03	2·61	·53	·19	1·78	1·62	·56	1·42	2·82	·89	8·68	20·98	40·68	26·31	24·22	37·62	28·14
	Dhobi Talao	·18	241,775	24,670	14,014	38,684	603	498	1,101	121·08	·25	·23	·18	2·04	·43	·88	1·57	2·06	·90	·90	7·60	·46	11·40	24·46	35·58	28·46	34·48	42·38	37·10
	Panaswadi	·20	187,015	18,126	9,278	27,404	360	327	707	110·20	·07	·18	·40	2·80	·14	·99	1·64	1·56	·62	·91	6·53	·25	10·26	20·96	35·24	25·80	26·48	37·29	31·81
	Bhuleshwar	·13	303,826	24,718	11,746	36,464	594	515	1,209	154·75	·08	·09	·21	2·19	·13	·13	1·28	4·05	·43	·49	10·58	·65	12·83	28·08	43·84	33·16	38·68	53·87	39·18
	Khara Talao	·07	328,271	15,052	7,927	22,979	484	423	907	114·42	·08	...	·26	2·52	·30	·08	2·52	2·78	·78	3·04	8·96	·60	17·49	33·15	53·96	39·47	40·89	59·20	47·04
	Kumbharwada	·07	395,757	17,908	9,795	27,703	536	449	985	119·37	·25	·21	·43	3·53	·14	...	1·73	2·70	·82	2·49	9·02	·79	13·59	29·98	45·83	35·55	31·60	44·76	36·22
D.	Khetwadi	·27	118,285	19,850	12,087	31,937	468	415	883	132·78	·09	·06	·21	1·03	·18	·40	1·18	1·63	·65	2·22	7·78	·56	11·64	23·57	43·35	27·64	26·07	35·96	27·79
	Girgaum	·20	153,895	19,156	11,623	30,779	461	416	877	110·81	·12	·16	·19	1·33	·26	·85	1·33	1·58	1·06	2·12	7·12	·32	12·37	24·06	35·79	28·49	30·06	42·15	34·16
	Chowpati	·17	187,041	15,088	4,309	19,397	163	111	274	146·93	·08	·08	·17	·26	·17	·26	1·05	1·66	1·22	1·22	6·90	·43	11·40	21·44	26·76	23·07	22·41	28·25	23·81
	Walkeshwar	·85	12,617	6,883	3,757	10,640	116	89	205	130·33	...	·09	...	·66	·46	...	·65	1·40	·46	1·22	5·07	·37	6·92	16·85	23·68	19·26	10·86	21·76	17·80
	Mahalakshmi	1·00	26,502	16,608	9,694	26,302	393	312	705	125·96	·03	...	·22	5·26	·11	·34	2·35	2·77	·26	1·36	5·98	·45	9·65	23·66	32·18	26·80	25·18	33·40	28·58
E.	Mazagon	·96	31,328	19,398	10,677	30,075	615	483	1,098	127·32	·16	·53	·16	3·42	·33	·19	5·22	4·52	·26	·69	9·14	·58	11·07	31·70	45·23	36·50	38·67	46·98	41·58
	Tarwadi	·75	37,898	18,141	10,283	28,424	870	609	1,479	143·85	·14	·84	·35	3·16	·87	·17	6·40	7·56	1·37	1·44	10·94	2·99	15·76	47·95	59·21	52·17	55·26	69·4	57·89
	2nd Nagpada	·05	484,000	13,321	8,379	21,700	464	417	881	111·27	·04	·04	·41	1·19	·23	·04	2·07	4·19	·64	3·77	10·46	·92	15·94	34·83	49·76	40·59	43·06	62·0	50·01
	Kamathipura	·10	867,610	22,523	14,228	36,751	777	701	1,478	110·84	·13	·21	·08	1·38	·05	·05	3·91	3·02	·57	4·13	11·29	·70	14·63	31·49	49·56	41·21	43·64	57·5	49·83
	Tardeo	·86	77,105	17,241	10,517	27,758	543	473	1,016	114·79	·07	·39	·58	1·98	·10	·18	2·59	4·79	·43	2·65	8·75	·61	13·47	31·45	44·97	36·60	35·25	49·7	38·60
	Byculla	·80	94,185	41,672	27,676	75,348	1,559	1,300	2,859	118·38	·13	·42	·34	1·79	·06	·10	3·43	4·77	·42	1·82	11·44	·55	12·64	36·93	46·97	37·67	37·06	54·7	43·01
	1st Nagpada	·05	128,380	4,182	2,232	6,414	111	65	176	170·76	·15	...	·15	1·09	...	·15	2·33	2·02	·93	2·18	6·85	·93	10·60	26·54	29·12	27·43	37·14	48·32	41·94
F.	Parel	·86	52,876	28,858	15,616	45,474	804	608	1,412	132·23	·26	·32	·26	3·16	·39	·04	3·60	3·84	·19	·79	8·07	·89	9·89	27·67	36·59	31·05	29·34	40·36	33·49
	Sewri	·77	24,762	11,841	7,226	19,067	340	274	614	124·08	·10	·81	·05	3·19	·10	...	3·14	5·87	·05	·62	8·39	·36	9·96	28·71	37·91	33·2	31·14	4·7	31·17
	Sion	6·66	4,606	18,463	12,217	30,680	515	451	966	114·19	.....	·42	·16	2·60	...	·06	2·15	4·00	·32	·94	7·17	·68	13·94	27·89	38·91	31·45	31·23	39·16	34·4
G.	Mahim	2·01	15,170	18,271	12,221	30,492	569	500	1,069	111·80	·06	·45	·32	1·00	·09	·09	1·81	4·63	·45	1·60	9·31	·22	11·18	29·69	40·11	34·73	29·58	39·63	33·65
	Worli	2·84	31,553	58,473	13,188	39,611	1,559	1,266	2,825	123·14	·13	·28	·51	4·65	·08	·06	2·74	3·07	·10	1·31	9·48	·44	8·70	26·66	36·36	31·22	29·91	42·33	34·75
	Harbour, Docks, Railways and Homeless ...	...	...	39,963	5,016	44,979	84	4	88	2100·00	·02	...	...	·02	·06	·11	·26	·17	·06	·02	·22	·44	·48	2·10	·72	1·96	4·47	2·56	4·06
	Total ...	22·55	43,453	640,288	339,157	979,445	17,794	14,012	31,806	126·99	·12	·21	·22	2·66	·26	·15	2·68	3·23	·52	1·66	8·78	·67	11·23	27·70	41·21	32·47	33·00	45·98	37·19

TABLE of Deaths registered by Section and Month in 1913.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total No. of deaths registered in 1913.
A	Upper Colaba	8	5	5	4	4	7	4	5	3	6	4	6	56
	Middle and Lower Colaba	47	45	39	38	60	41	43	36	45	43	36	33	606
	Fort, South	7	2	2	7	4	2	1	3	4	1	3	4	40
	Fort, North	76	64	63	84	101	60	66	87	69	80	56	58	864
	Esplanade	54	65	57	48	40	28	40	57	59	72	65	43	623
B	Mandvi	113	83	160	150	99	78	78	78	64	98	94	91	1,191
	Chukla	82	57	86	116	116	67	63	65	66	62	57	59	896
	Umarkhadi	162	155	216	238	209	134	144	125	164	141	127	148	1,963
	Dongri	85	92	127	123	108	65	58	69	50	79	67	77	1,000
C	Market	74	65	62	77	78	63	56	70	71	61	64	48	794
	Dhobi Talao	79	64	91	105	127	82	91	91	87	108	93	83	1,101
	Panaswadi	59	52	66	86	82	58	41	55	34	50	56	68	707
	Bhuleshwar	100	92	97	123	123	84	100	95	72	111	106	106	1,209
	Khara Talao	70	65	81	90	115	83	53	75	67	75	69	64	907
	Kumbharwada	80	71	75	98	114	83	68	75	78	80	86	77	985
D	Khetwadi	67	76	70	81	98	71	69	73	59	79	79	61	883
	Girgaum	81	75	88	82	91	64	69	58	75	62	65	67	877
	Chowpati	25	25	23	21	31	25	23	21	14	15	27	13	263
	Walkeshwar	13	20	27	22	20	12	15	15	16	14	13	18	205
	Mahalakshmi	51	50	83	84	101	44	48	55	41	43	61	44	705
E	Mazagon	84	78	115	147	122	68	75	91	72	70	96	80	1,098
	Tarwadi	148	124	111	163	126	99	121	110	115	125	109	128	1,479
	2nd Nagpada	69	58	85	68	91	57	81	73	73	75	77	74	881
	Kamathipura	128	127	136	142	147	103	135	115	101	120	107	137	1,478
	Tardeo	85	66	94	108	111	94	87	85	63	70	68	85	1,016
	Byculla	234	214	247	286	326	207	212	245	225	209	212	222	2,839
	1st Nagpada	14	14	16	19	21	14	12	14	14	12	12	14	176
F	Parel	101	102	162	156	158	105	99	127	119	91	98	94	1,412
	Sewri	72	59	54	70	60	31	46	45	36	37	38	46	614
	Sion	76	72	91	109	108	57	69	80	82	67	70	85	966
G	Mahim	104	70	91	122	125	73	76	77	70	72	75	104	1,059
	Worli	227	216	318	417	335	182	180	188	193	185	180	204	2,825
	Harbour, Docks, Railways and Homeless	13	13	6	6	8	8	4	6	4	5	8	7	88
	Total	2,683	2,441	3,074	3,535	3,459	2,274	2,327	2,464	2,305	2,418	2,378	2,448	31,806

TABLE of Deaths registered from all Causes by Section and Age-Period in 1913.

1	2	3		4		5		6		7		8		9		10		11		12		13		14		15
Ward.	SECTION.	Under 1 year.		1 year and under 5 years.		5 years and under 10 years.		10 years and under 15 years.		15 years and under 20 years.		20 years and under 30 years.		30 years and under 40 years.		40 years and under 50 years.		50 years and under 60 years.		60 years and upwards.		Unspecified Age.		Total.		Total.
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
A	Upper Colaba ...	6	7	5	1	2	1	...	1	...	1	8	4	5	4	3	...	2	1	1	4	...	...	32	24	56
	Middle and Lower Colaba ...	62	61	29	33	11	11	10	6	27	13	90	44	51	29	28	26	26	14	13	27	...	...	347	259	606
	Fort, South ...	1	1	...	3	...	...	1	...	1	1	5	2	6	...	6	2	3	1	5	3	...	...	28	12	40
	Fort, North ...	91	73	40	25	15	9	15	19	36	22	89	61	69	42	55	39	43	51	48	50	...	...	501	363	864
	Esplanade ...	29	39	18	19	7	3	8	8	20	14	118	29	97	22	52	16	54	11	45	17	3	...	446	176	623
B	Mandvi ...	113	94	46	53	22	11	33	26	62	42	172	73	106	46	80	56	50	29	53	46	...	...	736	455	1,191
	Chukla ...	107	76	58	33	15	18	12	20	27	50	82	73	63	36	37	33	30	28	46	47	...	...	477	419	896
	Umarkhadi ...	220	201	118	101	28	41	41	45	76	70	235	114	148	81	96	51	87	53	75	87	...	...	1,119	844	1,963
	Dongri ...	125	115	55	47	23	26	20	16	54	39	139	62	64	27	49	24	55	25	16	39	...	...	580	420	1,000
C	Market ...	90	70	34	44	10	11	17	11	41	42	94	61	56	20	41	24	40	19	39	30	...	...	462	332	794
	Dhobi Talao ...	119	122	75	65	15	16	19	21	49	34	99	76	71	34	53	26	51	39	52	65	...	...	603	498	1,101
	Fanaswadi ...	76	69	34	36	8	17	19	22	32	27	72	49	36	32	45	17	22	25	36	33	...	...	380	327	707
	Bhuleshwar ...	147	113	52	63	15	25	24	15	56	56	115	83	80	45	73	28	72	26	60	62	...	...	694	515	1,209
	Khara Talao ...	102	86	46	44	19	14	8	23	33	46	79	84	69	58	36	27	27	19	65	42	...	...	484	423	907
	Kumbharwada ...	119	112	55	71	24	16	9	20	43	36	100	71	72	29	52	22	30	24	32	48	...	...	536	449	985
D	Khetwadi ...	129	98	50	50	10	18	17	10	36	31	72	60	50	50	29	21	32	28	43	49	...	...	468	415	883
	Girgaum ...	115	88	61	67	7	11	13	13	32	30	71	65	51	54	31	27	34	25	46	56	...	...	461	416	877
	Chowpati ...	39	27	18	18	2	2	6	3	7	9	23	20	13	10	14	7	15	6	15	15	...	...	152	111	263
	Walkeshwar ...	21	23	10	18	1	3	...	3	9	6	21	15	16	7	7	5	19	5	12	11	...	...	116	89	205
	Mahalakshmi ...	75	91	43	35	16	12	11	7	42	23	71	48	41	24	33	21	21	19	40	32	...	...	393	312	705
E	Mazagon ...	186	138	52	70	21	15	20	18	49	22	109	75	66	35	56	26	51	24	55	60	...	...	615	483	1,098
	Tarwadi ...	198	231	47	77	22	16	25	22	57	29	191	81	136	50	78	34	64	21	50	48	2	...	870	609	1,479
	2nd Nagpada ...	113	97	56	57	10	16	10	18	23	31	80	73	56	36	30	18	37	25	50	41	...	...	464	417	881
	Kamathipura ...	151	161	105	117	20	34	21	25	46	46	155	113	114	59	55	31	62	55	48	62	...	...	777	701	1,478
	Tardeo ...	162	132	68	65	14	18	15	13	23	41	87	65	58	22	38	33	29	28	49	57	...	...	543	473	1,016
	Byculla ...	388	346	208	222	40	52	30	49	105	72	236	178	198	118	110	81	120	76	94	106	...	...	1,539	1,300	2,839
	1st Nagpada ...	12	16	14	6	2	1	1	3	9	4	24	15	14	7	15	3	13	6	8	4	...	...	111	65	176
F	Parel ...	188	174	80	74	30	36	32	23	63	40	134	97	105	32	57	23	65	49	50	61	...	...	804	608	1,412
	Sewri ...	108	99	42	41	11	7	10	8	22	9	51	31	23	21	27	15	18	18	28	25	...	...	340	274	614
	Sion ...	156	130	51	59	19	17	13	12	40	34	73	77	46	49	51	19	36	21	30	43	...	...	515	451	966
G	Mahim ...	149	135	53	75	16	18	22	17	29	38	81	77	76	40	39	32	45	22	49	42	...	...	559	500	1,059
	Worli ...	376	348	178	198	61	63	60	47	130	84	315	181	162	98	84	60	89	80	104	112	...	...	1,559	1,266	2,825
	Harbour, Docks, Railways and Homeless ...	1	2	...	...	...	...	3	...	10	...	24	...	20	...	11	2	7	...	7	...	1	...	84	4	88
	Total ...	3,923	3,565	1,791	1,870	516	558	504	540	1,289	1,042	3,315	2,159	2,228	1,177	1,471	829	1,328	842	1,364	1,430	5	...	17,794	14,012	31,806
	Persons ...	7,488		3,661		1,074		1,104		2,331		5,474		3,405		2,300		2,170		2,794		5		31,806		...
	Percentages to Total Mortality ...	23·54		11·51		3·37		3·47		7·33		17·21		10·70		7·23		6·82		8·78		·01		...		...

6

TABLE showing the Population, the Number of Deaths from all Causes and the

1	2	3														
		Population by the Census of 1911.														
Ward.	SECTION.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Other and Unknown Castes.	Total.
A.	Upper Colaba ...	15	68	...	...	521	533	98	104	4	113	45	56	...	1,557
	Middle and Lower Colaba.	149	169	69	2	11,094	1,690	1,190	1,085	170	1,760	223	2,037	41	19,679
	Fort, South ...	...	31	7	...	1,460	247	166	96	93	321	55	486	...	3,462
	Fort, North ...	800	1,075	2	1,497	7,779	1,356	1,440	9,692	12	1,378	155	167	45	25,400
	Esplanade ...	1	270	...	32	6,004	5,556	3,019	503	55	967	248	1,063	44	17,761
B.	Mandvi ...	2,562	2,387	16	1,659	20,360	194	5,217	9	541	136	8	20	43	33,302
	Chakla ...	765	690	...	160	7,383	34	15,082	74	...	34	...	9	...	24,231
	Umarkhadi ...	1,158	351	8	60	11,916	788	29,280	38	1,371	640	39	22	8	45,679
	Dongri ...	351	250	35	8	22,092	1,222	2,571	24	436	166	13	72	9	27,246
C.	Market ...	4,489	3,514	91	2,112	14,032	75	3,415	1,306	...	1,111	62	28	37	30,172
	Dhobi Talao ...	881	2,547	52	1,166	16,226	1,308	1,015	8,619	1	6,461	98	263	12	38,684
	Panaswadi ...	530	5,104	28	46	16,162	796	502	2,005	2	2,181	7	41	9	27,403
	Bhuleshwar ...	1,949	5,084	...	79	17,194	29	11,377	715	...	28	1	3	...	36,459
	Khara Talao ...	471	173	26	6	5,967	158	15,938	171	28	40	1	...	...	22,979
	Kumbharwada ...	391	847	161	38	23,016	38	2,822	326	3	65	1	...	...	27,705
D.	Khetwadi ...	167	3,448	49	111	15,727	245	3,643	7,326	36	1,087	25	62	16	31,937
	Girgaum ...	378	10,079	36	32	18,184	48	295	582	1	1,010	74	60	...	30,779
	Chowpati ...	191	2,266	...	45	7,224	2	331	859	5	444	4	25	1	11,397
	Walkeshwar ...	275	1,023	14	170	5,888	269	677	1,117	14	331	27	271	54	10,540
	Mahalakshmi ...	54	1,933	18	119	17,191	694	887	4,049	16	1,228	2	131	...	26,802
E.	Mazagon ...	237	411	7	...	18,487	1,235	4,562	1,245	35	3,114	292	418	39	30,075
	Tarwadi ...	200	547	20	6	18,914	1,502	3,080	990	600	1,219	667	678	1	28,424
	2nd Nagpada ...	67	66	...	...	5,809	305	14,690	82	874	196	1	7	3	21,700
	Kamathipura ...	364	825	75	19	21,268	5,432	7,742	174	137	528	61	51	72	36,751
	Tardeo ...	246	810	8	4	12,652	4,209	4,859	3,815	72	884	96	29	74	27,758
	Byculla ...	783	1,348	30	3	42,470	7,831	16,556	853	906	2,720	904	961	3	75,348
	1st Nagpada ...	120	347	4	...	2,796	50	1,233	46	808	606	282	121	1	6,414
F.	Parel ...	592	1,356	115	28	36,596	1,785	2,192	1,681	96	829	89	111	6	45,474
	Sewri ...	201	212	19	...	16,172	919	992	42	7	428	18	62	...	19,067
	Sion ...	459	1,849	30	238	19,459	3,085	2,412	728	21	2,191	92	114	2	30,680
G.	Mahim ...	410	1,280	54	31	20,498	927	3,609	550	40	2,913	108	125	2	30,492
	Worli ...	915	2,374	189	46	35,875	8,666	4,859	1,918	683	3,393	294	399	...	59,611
	Harbour, Docks, Railways and Homeless.	319	977	15	68	21,276	2,405	13,560	229	30	1,706	198	4,008	188	44,979
	Total ...	20,460	53,656	1,179	7,780	547,192	54,235	179,346	50,931	6,597	41,273	4,183	11,894	714	979,445

opulation by Class and Section in 1913.

4										5									
DEATHS FROM ALL CAUSES EXCLUDING STILL-BORN.										DEATH-RATE PER 1,000 OF POPULATION AMONGST									
Hindus of other Castes.	Hindus, low Caste.	Musalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Other and unknown Castes.	Total.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, low Caste.	Musalmans.	Parsees.	Jews.	Native Christians.	Eurasians.
10	18	7	2	...	7	2	10	...	56	.....	...	...	...	19·19	33·78	71·42	19·23	...	61·94	44·
377	83	44	10	1	23	5	44	1	606	80·53	28·66	14·49	500·00	33·98	49·11	36·97	9·21	5·88	13·06	22·
8	5	...	2	...	9	1	13	...	40	.....	32·25	...	...	5·47	20·24	...	20·83	...	10·96	18·
227	103	63	241	...	42	9	12	...	864	76·25	39·06	...	41·75	29·18	75·84	43·75	34·86	...	30·47	58·
228	113	224	6	...	29	6	13	2	623	1,000·00	22·22	...	...	37·14	20·33	74·19	11·93	...	20·98	24·
635	14	198	...	10	8	1	1	3	1,191	69·47	34·35	250·00	34·35	31·18	72·16	37·95	...	18·48	43·01	125·
163	11	644	...	...	1	...	2	...	896	77·12	18·84	...	18·75	22·07	833·52	42·69	...	...	29·41	...
414	54	1,365	...	40	28	...	...	1	1,963	44·04	25·64	125·00	...	34·78	68·52	46·61	...	29·17	43·75	...
676	157	108	...	6	7	...	1	...	1,000	96·86	40·00	26·31	...	30·59	128·47	42·00	...	13·76	42·16	...
284	6	101	45	...	28	1	...	1	794	46·55	22·76	54·94	16·09	20·25	80·00	29·57	37·31	...	25·20	16·
425	71	47	193	...	194	3	...	...	1,101	81·72	21·20	...	36·02	26·19	54·28	46·80	22·39	...	30·02	30·
411	28	18	89	...	28	...	...	1	707	117·30	22·72	...	108·69	25·48	35·17	35·85	19·45	...	12·83	...
343	51	450	18	...	1	...	...	1	1,209	133·91	15·53	...	63·29	19·94	...	39·55	25·17	...	35·71	...
162	62	652	2	...	2	...	...	1	907	33·97	34·68	153·84	...	27·14	392·40	40·90	11·69	...	50·00	...
738	63	116	4	1	2	...	...	1	985	69·05	35·41	68·32	66·66	31·63	...	41·10	22·26	333·33	30·76	...
438	11	131	180	...	19	...	1	1	883	149·70	19·16	61·28	72·07	27·35	44·89	35·95	247·93	...	17·47	...
566	5	12	11	...	34	1	...	...	877	111·11	20·04	27·76	62·50	31·12	104·16	40·67	18·90	...	33·66	13·
180	1	7	32	...	10	...	...	1	263	36·64	9·70	...	66·66	24·91	500·00	21·14	37·35	...	22·52	...
115	10	9	18	...	3	...	1	...	205	50·90	26·39	...	47·05	19·38	37·17	13·29	16·11	...	3·61	...
435	152	21	60	...	21	...	1	...	705	264·70	10·91	...	42·01	25·30	190·20	23·67	14·81	...	17·10	...
677	50	170	33	2	106	3	6	5	1,098	71·72	51·09	428·56	...	36·62	40·48	37·26	26·54	57·14	34·03	27·
811	105	234	17	21	229	14	15	7	1,479	60·00	21·93	100·00	...	42·37	69·90	75·97	39·66	3·65	137·85	89·
107	168	590	3	6	10	1	...	...	881	44·77	45·45	...	...	20·15	174·58	40·16	36·58	16·04	51·02	1000
705	329	290	1	4	28	2	1	7	1,478	65·93	33·78	733·33	...	33·14	60·56	37·45	5·74	29·19	53·03	31
307	358	190	104	...	21	2	3	1	1,016	40·65	20·98	375·00	...	24·26	85·05	39·10	27·26	...	28·75	20·
1,285	554	683	35	31	115	18	36	2	2,839	54·91	22·25	233·33	...	30·25	70·74	401·25	42·01	34·21	42·27	19·
76	5	43	...	18	18	...	2	...	176	16·66	34·58	...	...	27·18	100·00	34·84	...	22·27	29·70	...
1,070	135	89	33	1	32	3	2	...	1,412	32·09	17·69	53·09	35·71	29·23	74·50	40·60	19·63	10·41	38·60	22·
502	45	36	1	...	14	...	2	...	614	24·87	42·45	...	...	31·04	48·96	36·29	23·80	...	33·09	...
492	223	103	9	1	74	1	5	...	966	41·39	16·76	100·00	21·00	25·28	72·28	42·70	12·36	47·16	33·77	10·
536	232	150	7	...	84	1	2	...	1,059	39·02	24·39	18·51	...	26·14	250·26	41·56	12·72	...	38·33	9·
1,725	625	162	39	17	103	8	8	1	2,835	43·71	28·64	148·14	21·73	26·18	72·13	33·34	20·33	24·89	30·35	27·
28	1	39	...	...	2	...	15	3	88	.....	...	...	...	1·31	·41	2·87	...	...	1·17	...
15,141	3,816	6,993	1,145	159	1,332	86	196	40	31,806	65·93	21·60	117·39	31·87	27·67	70·36	39·00	22·48	24·10	32·27	20·

TABLE of Deaths registered from CHOLERA by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of population. Males.	Females.	Total.	Mean Ratio per 1,000 of population during the previous 5 years.
A	Upper Colaba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·34
	Middle and Lower Colaba	1	...	...	...	...	...	...	1	1	...	...	...	...	...	3	...	...	·15	·58
	Fort, South	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·26
	Fort, North	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	·03	·61
	Esplanade	...	...	...	1	...	...	...	...	1	...	...	...	...	...	2	...	...	·11	·87
B	Mandvi	1	...	...	...	...	...	...	1	...	...	...	1	...	...	3	...	...	·09	1·18
	Chukla	...	...	1	...	...	...	...	1	...	...	...	...	...	...	2	...	...	·08	·80
	Umarkhadi	4	2	...	...	...	...	...	...	...	1	1	...	...	...	8	...	...	·17	1·34
	Dongri	1	3	...	1	...	...	...	...	...	1	...	...	...	...	6	...	...	·22	1·01
C	Market	...	...	1	...	...	...	...	...	6	1	2	...	...	...	10	...	...	·33	·48
	Dhobi Talao	3	...	1	...	2	1	1	...	1	1	...	...	...	...	10	...	...	·25	·85
	Fanaswadi	1	...	...	...	...	...	...	...	...	...	...	1	...	...	2	...	...	·07	·77
	Bhuleshwar	2	...	...	...	...	...	...	...	...	1	...	...	...	...	3	...	...	·08	·77
	Khara Talao	1	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	·06	·55
	Kumbharwada	...	2	1	...	1	1	...	1	...	1	...	...	...	...	7	...	...	·25	·81
D	Khetwadi	1	...	...	...	1	...	1	...	...	...	...	...	...	...	3	...	...	·09	·42
	Girgaum	1	...	...	...	...	...	...	...	...	1	1	1	...	...	4	...	...	·12	·85
	Chowpati	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	·08	·40
	Walkeshwar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·33
	Mahalakshmi	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	·03	·35
E	Mazagon	3	1	...	1	...	...	...	...	...	...	...	...	...	...	5	...	...	·16	·49
	Tarwadi	3	...	...	...	...	...	1	...	...	...	...	...	...	...	4	...	...	·14	·62
	2nd Nagpada	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	·04	·27
	Kamathipura	3	...	...	...	1	...	1	...	...	...	...	...	...	...	5	...	...	·13	·35
	Tardeo	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	·07	·35
	Byculla	3	1	...	...	...	...	1	3	...	1	...	1	...	...	10	...	...	·18	·44
	1st Nagpada	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	·15	·65
F	Parel	5	4	...	...	...	...	1	2	...	...	...	...	...	...	12	...	...	·26	·28
	Sewri	1	1	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	·10	·29
	Sion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·39
G	Mahim	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	·06	·35
	Worli	9	1	...	1	...	...	...	...	...	...	...	1	...	...	12	...	...	·13	·29
	Harbour, Docks, Railways and Homeless	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	·02	·16
	Total	49	15	5	4	6	2	7	9	10	8	4	6	80	45	125	·12	·13	·12	·58

TABLE of Deaths registered from SMALL-POX by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.			Death Ratio per 1,000 of population.			Mean Ratio per 1,000 population during the previous 5 years.
														Males.	Females.	Total.	Males.	Females.	Total.	
A	Upper Colaba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Middle and Lower Colaba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·35
	Fort, South	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·53
	Fort, North	...	1	...	...	...	...	1	1	...	...	...	...	...	...	3	...	...	·11	·54
	Esplanade	...	...	1	1	...	...	1	...	...	...	...	...	...	...	3	...	...	·16	·58
B	Mandvi	...	...	1	1	1	...	1	...	...	...	...	...	...	...	4	...	...	·12	·44
	Chukla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·32
	Umarkhadi	...	2	1	1	...	1	...	...	...	...	...	...	...	...	5	...	...	·10	·67
	Dongri	...	...	2	4	1	...	...	...	...	...	...	...	...	...	7	...	...	·25	·45
C	Market	...	1	...	2	...	...	...	...	...	...	...	...	...	...	3	...	...	·09	·57
	Dhobi Talao	2	1	1	2	...	...	1	...	...	...	1	1	...	...	9	...	...	·23	1·22
	Fanaswadi	...	...	2	...	...	1	1	1	...	...	...	...	...	...	5	...	...	·18	·87
	Bhuleshwar	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	·02	·50
	Khara Talao	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·59
	Kumbharwada	...	1	...	1	4	...	...	...	...	...	...	...	...	...	6	...	...	·21	·84
D	Khetwadi	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2	...	...	·06	·60
	Girgaum	...	1	1	2	1	...	...	...	...	...	...	...	...	...	5	...	...	·16	1·05
	Chowpati	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	·08	·40
	Walkeshwar	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	·09	·16
	Mahalakshmi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·71
E	Mazagon	...	...	3	5	2	2	1	3	...	...	...	...	...	...	16	...	...	·53	1·04
	Tarwadi	...	2	4	9	5	...	3	1	...	...	...	...	...	...	24	...	...	·84	·93
	2nd Nagpada	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	·04	·59
	Kamathipura	...	1	3	1	...	...	3	...	...	...	...	...	...	...	8	...	...	·21	1·17
	Tardeo	...	...	3	4	1	2	1	...	...	...	...	...	...	...	11	...	...	·39	·85
	Byculla	...	...	5	11	9	...	1	2	...	...	1	3	...	...	32	...	...	·42	1·37
	1st Nagpada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·09
F	Parel	...	...	4	5	4	1	...	1	...	...	...	...	...	...	15	...	...	·32	1·16
	Sewri	...	2	...	1	2	...	1	...	...	...	...	...	...	...	6	...	...	·31	·63
	Sion	...	2	2	5	2	...	...	1	...	...	...	1	...	...	13	...	...	·42	·68
G	Mahim	1	1	5	4	1	...	...	1	1	...	...	...	...	...	14	...	...	·45	·46
	Worli	...	1	2	2	4	2	2	...	3	1	...	...	...	...	17	...	...	·18	1·14
	Harbour, Docks, Railways and Homeless	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·53
	Total	3	16	41	64	38	9	17	11	4	1	2	6	123	90	212	·19	·26	·21	·80

TABLE of Deaths registered from MEASLES by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of population. Males.	Females.	Total.	Mean Ratio per 1,000 of population during the previous 5 years.
A	Upper Colaba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Middle and Lower Colaba	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	·05	·11
	Fort, South	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort, North	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	·03	·18
	Esplanade	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·14
B	Mandvi	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	·03	·30
	Chukla	...	...	1	1	...	...	...	...	...	...	...	...	...	...	2	...	...	·08	·36
	Umarkhadi	...	...	1	...	1	...	...	...	...	...	...	...	...	...	2	...	...	·04	·59
	Dongri	...	...	2	...	2	...	...	...	...	...	...	2	...	...	6	...	...	·22	·75
C	Market	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	·03	·15
	Dhobi Talao	...	...	1	1	...	1	...	...	...	...	1	3	...	...	7	...	...	·18	·84
	Fanaswadi	...	...	...	4	2	...	...	...	...	1	1	3	...	...	11	...	...	·40	·35
	Bhuleshwar	...	...	1	3	...	...	1	...	...	...	3	...	...	...	8	...	...	·21	·42
	Khara Talao	...	...	1	...	1	1	1	...	...	...	1	1	...	...	6	...	...	·26	·39
	Kumbharwada	...	...	2	...	1	1	...	...	1	...	...	7	...	...	12	...	...	·48	·61
D	Khetwadi	...	1	2	2	1	...	...	...	...	...	...	1	...	...	7	...	...	·21	·21
	Girgaum	1	1	1	1	1	...	...	...	1	...	...	...	...	...	6	...	...	·19	·23
	Chowpati	...	1	...	1	...	...	...	...	...	...	...	...	...	...	2	...	...	·17	·16
	Walkeshwar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mahalakshmi	1	...	3	...	...	1	1	...	...	...	...	1	...	...	6	...	...	·22	·35
E	Mazagon	...	...	2	1	1	...	...	...	...	...	1	...	...	...	5	...	...	·16	·26
	Tarwadi	2	1	1	4	...	...	...	...	...	...	1	1	...	...	10	...	...	·35	·40
	2nd Nagpada	...	...	6	...	...	1	1	...	...	...	1	...	...	...	9	...	...	·41	·41
	Kamathipura	...	...	...	...	1	...	...	...	...	...	1	1	...	...	3	...	...	·03	·27
	Tardeo	...	1	1	2	4	2	2	1	...	1	...	1	...	...	15	...	...	·54	·28
	Byculla	2	3	6	9	1	...	...	...	...	2	...	3	...	...	26	...	...	·34	·36
	1st Nagpada	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	·15	·21
F	Parel	1	2	6	3	...	...	...	...	...	...	...	...	...	...	12	...	...	·26	·49
	Sewri	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	·05	·29
	Sion	...	1	1	2	1	...	...	...	...	...	...	...	...	...	5	...	...	·16	·26
G	Mahim	1	1	2	...	...	...	1	2	...	1	...	2	...	...	10	...	...	·32	·29
	Worli	5	2	8	8	4	2	...	1	4	4	5	3	...	...	46	...	...	·51	·69
	Harbour, Docks, Railways and Homeless	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	14	14	47	42	22	10	7	5	6	9	16	30	117	105	222	·18	·30	·22	·36

TABLE of Deaths registered from PLAGUE by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of population. Males.	Females.	Total.	Mean Ratio per 1,000 of population during the previous 5 years.
A	Upper Colaba	...	...	...	...	...	1	...	...	...	1	...	...	...	...	2	...	...	1·28	1·78
	Middle and Lower Colaba	2	8	31	39	22	4	6	7	8	7	1	...	...	...	137	...	...	6·96	5·91
	Fort, South	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2	...	...	·57	3·19
	Fort, North	...	...	4	23	19	6	4	8	...	...	...	...	...	...	64	...	...	2·31	3·93
	Esplanade	...	...	2	5	3	...	1	...	...	1	...	...	...	...	12	...	...	·67	2·18
B	Mandvi	3	8	36	47	17	10	4	5	3	1	1	...	...	...	135	...	...	4·06	4·81
	Chakla	...	2	15	39	30	3	2	1	...	...	...	...	...	...	72	...	...	2·97	4·24
	Umarkhadi	1	4	34	58	28	2	1	...	2	2	...	...	...	...	132	...	...	3·88	4·87
	Dongri	1	10	27	33	35	6	1	...	2	...	...	...	...	...	115	...	...	4.22	4·45
C	Market	...	3	11	19	29	8	4	2	2	1	...	1	...	...	85	...	...	2·81	3·96
	Dhobi Talao	1	3	3	25	24	9	5	3	3	2	1	1	...	...	79	...	...	2·04	5·89
	Fanaswadi	...	1	12	27	27	4	2	3	1	1	...	...	...	...	77	...	...	2·80	5·29
	Bhuleshwar	...	1	18	23	21	7	5	5	1	...	...	...	...	...	80	...	...	2.19	5·33
	Khara Talao	...	...	4	18	25	6	1	3	...	...	1	...	...	...	58	...	...	2·52	5·08
	Kumbharwada	2	4	7	23	33	16	3	3	2	4	...	1	...	...	98	...	...	3·53	4·52
D	Khetwadi	...	2	2	15	13	1	...	...	...	...	...	...	...	...	33	...	...	1·03	2·52
	Girgaum	...	...	8	15	10	3	1	1	...	3	...	1	...	...	41	...	...	1·33	2·92
	Chowpati	...	...	...	2	1	...	...	...	...	...	...	...	...	...	3	...	...	·26	2·82
	Walkeshwar	...	...	...	...	4	...	...	1	1	...	...	...	...	...	6	...	...	·50	1·76
	Mahalakshmi	1	2	13	31	36	...	1	...	...	...	...	...	...	...	86	...	...	3·26	2·88
E	Managon	3	6	23	39	21	1	3	...	2	...	5	...	...	...	103	...	...	3·42	5·85
	Tarwadi	4	9	11	25	19	5	1	3	5	5	2	1	...	...	90	...	...	3·16	4·79
	2nd Nagpada	1	...	...	10	13	1	...	...	...	1	...	...	...	...	26	...	...	1·19	2·78
	Kamathipura	...	...	1	17	19	4	7	2	...	1	...	...	...	...	51	...	...	1·38	3·80
	Tardeo	...	2	5	21	17	6	3	...	...	...	1	...	...	...	56	...	...	1·98	2·92
	Byculla	3	3	16	36	53	7	7	5	1	1	3	1	...	...	136	...	...	1·79	4·78
	1st Nagpada	...	1	...	4	2	...	...	...	...	...	...	...	...	...	7	...	...	1·09	2·84
F	Parel	1	7	36	48	40	5	4	...	...	...	3	...	...	...	144	...	...	3·16	3·99
	Sewri	2	7	9	20	15	6	1	...	...	1	...	...	...	...	61	...	...	3·19	4·99
	Sion	...	4	11	24	31	6	2	2	...	...	...	...	...	...	80	...	...	2·60	3·53
G	Mahim	8	8	16	36	42	4	3	3	...	...	...	...	...	...	122	...	...	4·00	4·49
	Worli	8	23	101	165	88	7	7	4	9	2	3	...	...	...	417	...	...	4·65	4·62
	Harbour, Docks, Railways and Homeless	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	·02	·08
	Total	41	122	456	880	729	139	79	60	41	33	21	8	1,773	836	2,609	2·76	2·46	2·66	4·07

TABLE of Deaths registered from MALARIA by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of population. Males.	Females.	Total.	Mean Ratio per 1,000 of population during the previous 5 years.
A	Upper Colaba	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	·04	·69
	Middle and Lower Colaba	1	...	...	1	...	1	...	1	3	1	1	1	...	...	10	...	...	·50	·52
	Fort, South	...	...	...	1	...	...	...	1	...	1	...	...	...	...	3	...	...	·86	·79
	Fort, North	1	3	1	1	1	1	3	1	4	...	3	1	...	...	20	...	...	·78	1·13
	Esplanade	2	1	5	1	2	...	4	1	5	6	5	1	...	...	31	...	...	1·74	2·47
B	Mandvi	3	...	...	3	...	...	1	1	2	3	2	1	...	...	16	...	...	·48	1·46
	Chukla	1	...	1	...	...	...	...	1	1	1	...	2	...	...	7	...	...	·28	·21
	Umarkhadi	2	3	1	2	2	...	...	...	...	1	1	...	...	...	12	...	...	·26	·71
	Dongri	1	1	...	...	1	...	1	...	...	5	2	1	...	...	12	...	...	·44	1·14
C	Market	2	...	1	...	...	1	...	4	1	5	1	1	...	...	16	...	...	·53	·36
	Dhobi Talao	1	1	...	1	1	1	...	1	3	2	4	2	...	...	17	...	...	·48	·34
	Fanaswadi	...	1	...	...	2	...	...	...	...	1	...	...	...	...	4	...	...	·14	·21
	Bhuleshwar	...	...	...	1	...	...	...	...	...	3	1	...	...	...	5	...	...	·13	·24
	Khara Talao	...	1	...	...	2	...	...	1	1	1	1	...	...	...	7	...	...	·30	·31
	Kumbharwada	...	1	...	...	1	...	...	1	...	1	...	...	...	...	4	...	...	·14	·13
D	Khetwadi	1	...	...	1	...	...	...	2	...	...	1	1	...	...	6	...	...	·18	·24
	Girgaum	...	...	2	1	1	...	1	...	1	...	1	1	...	...	8	...	...	·25	·27
	Chowpati	...	...	1	...	...	...	...	...	...	1	...	...	...	...	2	...	...	·17	·32
	Walkeshwar	...	...	1	1	...	...	...	1	...	...	1	1	...	...	5	...	...	·46	·33
	Mahalakshmi	...	...	2	...	...	...	...	...	...	1	...	...	...	...	3	...	...	·11	·11
E	Masagon	2	...	...	...	1	...	...	...	1	1	2	...	...	...	7	...	...	·23	·18
	Tarwadi	...	1	1	3	2	5	...	2	2	5	6	2	...	...	25	...	...	·67	·77
	2nd Nagpada	1	...	...	...	...	...	...	...	...	...	1	2	...	...	5	...	...	·23	·13
	Kamathipura	...	...	...	...	...	1	...	...	1	...	...	...	...	...	2	...	...	·05	·08
	Tardeo	...	...	1	...	1	...	...	...	...	1	...	...	...	...	3	...	...	·10	·10
	Byculla	1	...	...	...	1	...	...	...	...	2	1	...	...	...	5	...	...	·06	·10
	1st Nagpada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·45
F	Parel	...	...	...	...	...	2	2	2	1	1	...	...	...	...	8	...	...	·39	·10
	Sewri	...	...	...	...	...	...	1	...	...	...	1	...	...	...	2	...	...	·10	·11
	Sion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·18
G	Mahim	...	...	...	1	...	...	1	...	...	...	1	...	...	...	3	...	...	·09	·09
	Worli	...	1	...	...	3	1	...	...	1	...	...	2	...	...	8	...	...	·08	·03
	Harbour, Docks, Railways and Homeless	1	...	1	2	...	...	...	...	...	...	...	...	...	...	4	...	...	·08	·24
	Total	20	15	18	20	19	13	14	20	25	41	36	20	172	89	261	·26	·26	·26	·22

TABLE of Deaths registered from ENTERIC FEVER by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of population. Males.	Females.	Total.	Mean Ratio per 1,000 of population during the previous 5 years.
A	Upper Colaba																			·34
	Middle and Lower Colaba			1		3	1				2		1			8			·40	·39
	Fort, South	1							1	1						3			·86	·53
	Fort, North	1			1	2		1		1	1	1	3			11			·43	·36
	Esplanade		2			1										3			·16	·51
B	Mandvi			1					1		1	1	1			4			·12	·08
	Chukla				1											1			·04	·07
	Umarkhadi										3					4			·08	·13
	Dongri				1					1						2			·07	·09
C	Market				1		1		1	1	1	1				6			·19	·12
	Dhobi Talao				5	1	1	2	5	1		2				15			·88	·40
	Fanaswadi	1	1		1		2			1	1		1			8			·29	·17
	Bhuleshwar				2		1				1	1				5			·13	·05
	Khara Talao						1			1						2			·08	·07
	Kumbharwada																			·06
D	Khetwadi		1	2		3	1	2	1	1		1	1			13			·40	·24
	Girgaum	2	1	1		4		1	1				1			11			·35	·27
	Chowpati					1				1			1			3			·26	·32
	Walkeshwar																			·08
	Mahalakshmi			3	1	2				2			1			9			·34	·15
E	Masagon			1		1		1	1	3						6			·19	·16
	Tarwadi		1			1				1	1	1				5			·17	·32
	2nd Nagpada									1						1			·04	·04
	Kamathipura						1				1					2			·05	
	Tardeo	1		1					1	1	1					5			·18	·14
	Byculla		1	1		2	1	2	1							8			·10	·07
	1st Nagpada									1						1			·15	·21
F	Parel		1		1											2			·04	·04
	Sewri																			
	Sion					1			1							2			·06	·05
G	Mahim						1					2				3			·09	·06
	Worli		1	1	2		1			1						6			·06	·06
	Harbour, Docks, Railways and Homeless	1		1				1		1	1					5			·11	·10
	Total	7	9	12	17	22	13	9	12	20	14	9	10	93	58	154	·14	·17	·15	·13

TABLE of Deaths registered from FEVERS (excluding MALARIAL and ENTERIC FEVERS) by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.			Death Ratio per 1,000 of population.			Mean Ratio per 1,000 of population during the previous 5 years.
														Males.	Females.	Total.	Males.	Females.	Total.	
A	Upper Colaba	...	...	1	...	...	1	...	1	...	...	...	...	...	...	3	...	...	1·92	1·03
	Middle and Lower Colaba	2	7	9	3	5	2	3	2	2	1	3	3	...	...	47	...	...	2·38	2·28
	Fort, South	...	1	1	...	1	...	...	...	1	...	1	...	...	...	5	...	...	1·44	1·86
	Fort, North	5	4	5	5	5	8	9	13	7	9	8	6	...	...	84	...	...	3·30	4·48
	Esplanade	6	9	5	7	4	4	9	9	16	27	12	8	...	...	116	...	...	6·53	9·55
B	Mandvi	11	12	13	7	6	4	8	4	7	5	11	9	...	...	101	...	...	3·04	3·64
	Chukla	5	1	1	4	11	1	2	3	3	2	1	5	...	...	39	...	...	1·60	2·08
	Umarkhadi	9	12	24	16	9	13	7	11	9	15	9	12	...	...	146	...	...	3·19	3·57
	Dongri	11	11	14	13	9	6	6	7	6	10	18	10	...	...	121	...	...	4·44	3·27
C	Market	5	6	...	6	7	4	5	3	7	6	...	5	...	...	54	...	...	1·78	1·92
	Dhobi Talao	5	4	5	3	9	4	4	11	7	4	...	5	...	...	61	...	..	1·57	2·40
	Fanaswadi	6	5	2	5	2	3	1	7	4	3	2	5	...	...	45	...	...	1·64	1·89
	Bhuleshwar	4	5	3	3	3	1	5	3	3	1	2	4	...	...	47	...	...	1·28	2·02
	Khara Talao	7	1	9	6	6	3	2	5	1	4	4	5	...	...	58	...	...	2·52	2·72
	Kumbharwada	4	3	...	7	3	1	4	3	7	4	7	5	...	...	48	...	...	1·73	1·59
D	Khetwadi	4	4	2	3	7	2	2	1	4	3	4	2	...	...	38	...	...	1·18	1·54
	Girgaum	3	3	4	1	3	5	3	3	6	1	5	5	...	...	41	...	...	1·33	1·97
	Chowpati	...	3	...	...	...	2	2	1	...	1	2	1	...	...	13	...	...	1·05	·86
	Walkeshwar	1	2	...	...	...	2	1	...	...	...	...	1	...	...	7	...	...	·65	·67
	Mahalakshmi	3	6	14	3	4	4	5	5	3	4	6	5	...	...	63	...	...	2·35	2·64
E	Masagon	14	12	16	15	13	14	9	7	14	12	20	11	...	...	157	...	...	5·22	4·54
	Tarwadi	14	12	14	18	19	15	16	11	17	19	16	11	...	...	182	...	...	6·40	5·38
	2nd Nagpada	6	5	3	2	1	6	7	5	6	7	5	5	...	...	58	...	...	2·37	4·11
	Kamathipura	8	9	17	13	11	11	15	12	11	17	14	6	...	...	144	...	...	3·91	5·16
	Tardeo	10	5	8	8	3	10	4	5	4	6	3	6	...	...	72	...	...	2·59	3·28
	Byculla	14	10	26	30	44	30	11	24	20	30	16	14	...	...	259	...	...	3·48	2·99
	1st Nagpada	3	2	...	1	1	...	1	2	1	1	...	3	...	...	15	...	...	2·33	2·62
F	Parel	16	18	13	6	12	16	7	22	17	14	14	9	...	...	164	...	...	3·60	3·28
	Sewri	6	8	4	3	3	5	3	9	2	5	3	9	...	...	60	...	...	3·14	3·60
	Sion	7	1	7	4	9	6	4	3	6	3	6	10	...	...	66	...	...	2·15	2·71
G	Mahim	4	2	3	5	5	5	3	5	8	7	3	8	...	...	58	...	...	1·81	1·19
	Worli	19	18	17	24	38	21	12	19	20	24	22	17	...	...	246	...	...	2·74	2·45
	Harbour, Docks, Railways and Homeless	3	1	...	...	3	...	...	2	...	2	1	...	...	...	12	...	...	·26	·53
	Total ...	215	202	240	226	251	214	170	222	219	241	223	205	1,625	1,003	2,628	2·53	2·95	2·68	2·81

TABLE of Deaths registered from DIARRHŒA and DYSENTERY by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of population. Males.	Females.	Total.	Mean Ratio per 1,000 of population during the previous 5 years.
A	Upper Colaba	1	1	...	...	1	2	...	1	...	1	...	...	...	...	6	...	...	5·85	3·46
	Middle and Lower Colaba	3	5	6	3	3	4	4	2	7	3	4	1	...	...	45	...	...	2·28	2·93
	Fort, South	...	...	...	...	...	...	...	...	1	...	...	2	...	...	3	...	...	·86	1·06
	Fort, North	4	2	8	6	9	3	3	10	6	3	6	5	...	...	65	...	...	2·55	3·06
	Esplanade	3	9	4	...	2	3	3	16	16	4	11	14	...	...	85	...	...	4·78	5·17
B	Mandvi	11	6	6	9	8	3	8	6	5	10	2	6	...	...	80	...	...	2·40	1·68
	Chukla	6	8	4	7	6	3	12	5	7	6	1	3	...	...	68	...	...	2·80	1·79
	Umarkhadi	14	15	17	14	19	9	18	11	25	12	15	11	...	...	180	...	...	3·94	3·50
	Dongri	11	6	12	12	2	4	5	10	8	4	5	7	...	...	86	...	...	3·15	4·19
C	Market	2	3	5	7	1	2	3	1	13	2	7	3	...	...	49	...	...	1·62	1·77
	Dhobi Talao	7	5	3	4	4	6	3	8	9	13	6	2	...	...	80	...	...	2·06	2·61
	Fanaswadi	3	6	2	6	1	7	2	5	4	1	4	2	...	...	43	...	...	1·56	1·92
	Bhuleshwar	15	10	20	8	12	9	12	9	11	15	11	15	...	...	148	...	...	4·05	3·25
	Khara Talao	5	6	6	4	5	5	5	4	2	9	7	6	...	...	64	...	...	2·78	3·98
	Kumbharwada	7	7	7	4	5	4	1	7	6	11	7	9	...	...	75	...	...	2·70	2·82
D	Khetwadi	3	6	5	2	2	4	5	5	5	5	3	7	...	...	52	...	...	1·62	2·61
	Girgaum	8	3	4	3	8	2	4	2	4	...	1	2	...	...	41	...	...	1·33	2·07
	Chowpati	2	3	1	...	4	2	1	2	2	...	2	...	...	...	19	...	...	1·66	1·69
	Walkeshwar	1	1	2	3	2	2	...	2	1	1	...	...	...	...	15	...	...	1·40	1·17
	Mahalakshmi	4	4	1	8	7	6	10	13	8	4	6	2	...	...	73	...	...	2·77	3·47
E	Mazagon	12	11	18	13	14	8	11	11	14	7	11	11	...	...	136	...	...	4·52	3·68
	Tarwadi	15	19	20	19	13	17	15	22	19	16	22	18	...	...	215	...	...	7·66	7·06
	2nd Nagpada	2	4	4	6	9	7	13	8	6	11	9	13	...	...	91	...	...	4·19	5·43
	Kamathipura	11	12	9	11	11	6	10	13	4	8	7	9	...	...	111	...	...	3·02	3·96
	Tardeo	12	15	14	6	14	5	16	18	9	7	3	14	...	...	133	...	...	4·79	4·56
	Byculla	36	36	38	34	32	22	23	25	30	32	18	31	...	...	360	...	...	4·77	5·13
	1st Nagpada	...	3	...	3	1	2	...	...	1	...	...	3	...	...	13	...	...	2·02	3·50
F	Parel	10	13	19	12	13	14	5	27	25	11	11	15	...	...	175	...	...	3·84	3·49
	Sewri	13	12	12	7	12	8	7	12	6	5	5	8	...	...	112	...	...	5·87	4·07
	Sion	13	13	10	11	9	9	6	13	11	8	6	9	...	...	123	...	...	4·00	4·05
G	Mahim	15	7	12	7	16	10	13	11	10	9	10	23	...	...	143	...	...	4·68	4·53
	Worli	26	20	28	21	29	17	17	22	30	24	15	27	...	...	276	...	...	3·07	3·57
	Harbour, Docks, Railways and Homeless	1	3	1	...	...	...	...	2	...	...	...	1	...	...	8	...	...	·17	·34
	Total	281	274	298	250	273	205	239	308	305	242	215	283	1,761	1,412	3,173	2·75	4·18	3·23	3·42

TABLE of Deaths registered from TUBERCLE OF LUNGS and TUBERCULAR DISEASES by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of population. Males.	Females.	Total.	Mean Ratio per 1,000 of population during the previous 5 years.
A	Upper Colaba	1	...	...	1	1	1	...	...	...	1	2	...	...	...	7	...	...	4·49	1·73
	Middle and Lower Colaba	1	...	...	1	...	1	...	...	...	...	1	...	...	...	4	...	...	·20	·46
	Fort, South	1	...	...	...	...	1	...	...	...	...	1	...	...	...	3	...	...	·86	·26
	Fort, North	2	2	...	1	5	...	...	4	5	6	1	1	...	...	27	...	...	1·06	·98
	Esplanade	3	3	1	...	4	3	9	3	2	2	5	3	...	...	38	...	...	2·18	1·60
B	Mandvi	3	1	2	2	1	...	1	2	2	...	2	2	...	...	18	...	...	·54	·38
	Chukla	3	1	...	2	2	1	...	3	1	3	...	1	...	...	17	...	...	·70	·43
	Umarkhadi	7	2	2	1	4	3	2	3	...	3	3	...	...	...	30	...	...	·65	2·29
	Dongri	2	2	2	2	...	1	3	2	...	3	1	1	...	...	19	...	...	·69	1·11
C	Market	2	1	3	...	...	...	2	1	...	4	2	2	...	...	17	...	...	·56	·45
	Dhobi Talao	1	4	5	1	3	4	3	...	4	6	3	1	...	...	35	...	...	·90	·69
	Panaswadi	2	...	1	2	4	1	2	1	1	1	1	1	...	...	17	...	...	·62	·35
	Bhuleshwar	1	2	1	2	2	...	3	1	...	4	...	...	...	...	16	...	...	·48	·48
	Khara Talao	1	2	2	3	...	1	...	4	2	1	2	...	...	...	18	...	...	·78	·47
	Kumbharwada	...	...	...	2	1	1	...	...	1	1	3	...	...	...	9	...	...	·32	·26
D	Khetwadi	1	2	1	2	...	...	4	5	3	2	1	...	...	...	21	...	...	·65	·60
	Girgaum	2	...	2	...	1	4	2	2	2	1	1	1	...	...	18	...	...	·58	·68
	Chowpatti	4	...	...	...	2	...	1	...	1	3	2	1	...	...	14	...	...	1·22	·32
	Walkeshwar	1	...	...	...	...	1	...	1	...	1	...	1	...	...	5	...	...	·46	·25
	Mahalakshmi	1	...	1	...	2	1	...	...	1	...	...	1	...	...	7	...	...	·26	·19
E	Mazagon	...	1	2	...	1	1	...	...	1	2	...	...	...	...	8	...	...	·36	·81
	Tarwadi	4	2	4	4	3	3	2	1	4	7	1	4	...	...	39	...	...	1·37	2·17
	2nd Nagpada	...	...	1	...	1	1	4	...	1	3	2	1	...	...	14	...	...	·64	·50
	Kamathipura	3	3	1	2	3	...	1	2	1	1	1	1	...	...	21	...	...	·57	·49
	Tardeo	...	1	2	...	...	2	1	...	...	1	3	2	...	...	12	...	...	·43	·42
	Byculla	1	2	4	2	4	4	3	4	3	3	1	1	...	...	32	...	...	·42	·36
	1st Nagpada	...	...	1	1	2	1	1	...	...	...	...	...	...	...	6	...	...	·93	1·09
F	Parél	...	...	...	2	1	...	...	2	...	1	2	1	...	...	9	...	...	·19	·17
	Sewri	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	·05	·17
	Sion	3	1	...	...	1	...	1	2	...	1	...	1	...	...	10	...	...	·32	·16
G	Mahim	1	...	1	...	1	1	...	2	2	2	1	3	...	...	14	...	...	·45	·22
	Worli	...	...	1	1	...	...	2	1	1	...	1	2	...	...	9	...	...	·10	·11
	Harbour, Docks, Railways and Homeless	...	1	...	...	1	1	...	...	1	...	...	...	...	...	4	...	...	·08	·10
	Total	51	33	40	34	52	38	48	46	39	63	43	32	269	250	519	·42	·73	·52	·58

TABLE of Deaths registered from RESPIRATORY DISEASES (including Phthisis) by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of population. Males.	Females.	Total.	Mean Ratio per 1,000 of population during the previous 5 years.
A	Upper Colaba	...	1	2	2	1	1	1	1	2	1	1	2	...	...	15	...	...	9·63	6·23
	Middle and Lower Colaba	16	11	19	17	11	14	15	11	11	15	9	7	...	...	156	...	...	7·92	8·96
	Fort, South	1	1	1	3	3	...	1	..	...	...	...	...	...	...	10	...	...	2·88	2·98
	Fort, North	24	26	25	11	26	16	29	16	11	18	14	19	...	...	235	...	...	9·26	10·35
	Esplanade	24	20	9	16	12	8	4	15	7	10	17	17	...	...	154	...	...	8·67	11·78
B	Mandvi	54	39	63	46	40	37	26	34	26	40	45	44	...	...	494	...	...	14·87	13·35
	Chakla	34	24	30	31	46	26	38	23	26	24	27	23	...	...	342	...	...	14 11	14·79
	Umarkhadi	61	59	80	76	82	50	61	42	62	58	45	54	...	...	725	...	...	15·87	16·09
	Dongri	30	37	44	35	32	23	18	23	14	30	21	33	...	...	339	...	...	12·44	14·10
C	Market	34	29	21	17	21	21	19	28	22	18	26	23	...	...	279	...	...	9·24	7·96
	Dhobi Talao	28	23	23	27	45	26	27	21	24	23	29	33	...	...	329	...	...	9·50	10·20
	Fanaswadi	16	18	16	20	24	19	13	14	10	16	17	21	...	...	204	...	...	7·44	8·78
	Bhuleshwar	34	33	25	34	35	32	37	33	23	38	36	44	...	...	404	..	...	11·08	13·26
	Khara Talao	20	26	27	22	28	29	19	21	20	27	17	20	...	...	276	...	...	12·01	14·79
	Kumbharwada	28	23	32	37	36	34	25	22	20	18	24	20	...	...	319	...	...	11·51	12·38
D	Khetwadi	25	26	32	29	36	34	27	28	21	32	26	17	...	...	318	...	...	9·95	9·44
	Girgaum	28	27	29	25	31	23	26	21	22	19	36	24	...	...	311	...	...	10·10	10·89
	Chowpati	8	5	9	6	7	7	6	7	1	4	9	3	...	...	71	...	...	6·22	7·19
	Walkeshwar	5	4	12	6	4	3	10	4	5	4	4	6	...	...	67	...	...	6·29	5·14
	Mahalakshmi	17	17	27	22	18	8	9	16	10	15	18	16	...	...	192	...	...	7·29	7·62
E	Mazagon	17	26	25	40	30	16	27	32	12	18	23	30	...	...	296	...	...	9·84	10·76
	Tarwadi	41	25	31	31	32	24	36	21	29	27	27	38	...	...	352	...	...	13·38	13·67
	2nd Nagpada	27	25	36	31	34	18	22	22	27	25	28	24	...	...	309	...	...	14·28	16·30
	Kamathipura	59	52	60	52	55	31	55	36	41	57	40	49	...	...	557	...	...	15·42	15·57
	Tardeo	29	18	32	31	31	30	21	29	19	22	25	30	...	...	317	...	...	11·42	12·38
	Byculla	90	89	80	77	96	64	60	94	66	77	86	83	...	...	962	...	...	12·76	12·63
	1st Nagpada	5	5	9	2	7	5	7	7	1	2	6	3	...	...	58	...	...	9·04	13·69
F	Parel	29	30	39	37	46	31	38	37	34	27	26	29	...	...	403	...	...	8·86	9·55
	Sewri	23	17	14	20	18	10	18	8	17	9	18	10	...	...	172	...	...	9·02	9·11
	Sion	21	20	25	30	18	13	22	16	24	22	18	20	...	...	249	...	...	8·11	9·09
G	Mahim	33	22	31	43	30	28	25	20	20	27	26	28	...	...	333	...	...	10·92	11·16
	Worli	87	85	96	107	119	66	72	69	57	59	69	83	...	...	968	...	..	10·80	10·92
	Harbour, Docks, Railways and Homeless	3	...	1	...	1	1	1	1	...	...	2	1	...	...	11	...	...	24	·56
	Total ...	951	863	995	973	1,050	733	800	766	684	757	815	850	5,674	4,563	10,237	8·86	13·45	10·45	11·20

TABLE of Deaths registered from INJURIES by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of population. Males.	Females.	Total.	Mean Ratio per 1,000 of population during the previous 5 years.
A	Upper Colaba	...	...	...	...	...	...	1	...	...	...	...	1	...	...	2	...	...	1·28	·69
	Middle and Lower Colaba	2	1	2	2	...	1	...	1	1	1	...	...	...	...	11	...	...	·55	·93
	Fort, South	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	·57	·79
	Fort, North	4	1	...	3	1	3	1	3	3	3	...	2	...	...	23	...	...	·90	·91
	Esplanade	3	8	2	5	1	4	2	3	3	7	3	10	...	...	51	...	...	2·87	3·71
B	Mandvi	...	1	4	2	1	2	...	...	...	2	5	3	...	...	20	...	...	·60	·58
	Chukla	2	1	1	3	1	1	...	1	1	...	1	1	...	...	13	...	...	·53	·62
	Umarkhadi	2	2	3	3	3	4	1	3	2	1	...	3	...	...	27	...	...	·59	·67
	Dongri	...	2	4	...	2	3	...	4	3	1	2	...	...	...	21	...	...	·77	·62
C	Market	3	...	2	...	1	...	2	...	...	2	1	1	...	...	12	...	...	·39	·57
	Dhobi Talao	2	1	2	...	1	...	3	3	1	...	2	3	...	...	18	...	...	·46	·30
	Fanaswadi	2	1	...	1	1	...	...	...	...	...	2	...	...	...	7	...	...	·25	·45
	Bhuleshwar	1	...	2	3	2	2	3	2	...	3	4	2	...	...	24	...	...	·65	·58
	Khara Talao	1	3	2	...	1	1	1	...	3	1	...	1	...	...	14	...	...	·60	·86
	Kumbharwada	2	2	...	1	4	1	1	6	1	...	3	1	...	...	22	...	...	·79	·48
D	Khetwadi	1	...	2	2	2	1	2	...	3	3	2	...	...	...	18	...	...	·56	·63
	Girgaum	2	1	...	...	1	2	...	1	1	...	1	1	...	...	10	...	...	·32	·51
	Chowpati	...	1	...	...	2	...	...	1	...	...	...	1	...	...	5	...	...	·45	·48
	Walkeshwar	...	1	...	2	1	...	...	...	...	...	...	...	...	...	4	...	...	·37	·42
	Mahalakshmi	...	2	1	1	1	2	1	1	...	1	2	...	...	...	13	...	...	·45	·45
E	Mazagon	...	...	2	4	3	2	4	1	2	2	4	2	...	...	26	...	...	·86	·55
	Parwadi	13	13	9	6	4	7	2	4	6	4	5	12	...	...	85	...	...	2·29	3·20
	2nd Nagpada	3	2	...	2	3	3	2	4	...	...	...	1	...	...	20	...	...	·92	·63
	Ramathpura	...	1	1	4	1	2	1	3	5	4	3	1	...	...	26	...	...	·70	·73
	Tardeo	...	...	2	1	2	...	...	...	1	3	3	5	...	...	17	...	...	·61	·42
	Ryculla	2	3	1	6	3	...	3	7	5	3	7	5	...	...	42	...	...	·55	·59
	1st Nagpada	...	...	...	...	1	1	...	...	...	2	2	...	...	...	6	...	...	·93	1·09
F	Parel	4	4	2	2	2	3	1	...	1	...	...	2	...	...	18	...	...	·39	·62
	Sewri	1	...	...	...	2	3	1	...	...	...	...	...	...	...	7	...	...	·36	·58
	Sion	2	...	2	...	3	2	2	2	2	1	5	...	...	...	21	...	...	·68	·58
G	Mahim	3	...	1	1	3	...	4	...	2	2	...	...	...	...	16	...	...	·52	·61
	Worli	2	2	5	6	4	5	2	3	1	5	3	...	...	...	40	...	...	·44	·67
	Harbour, Docks, Railways and Homeless	...	3	...	4	3	3	1	1	...	1	4	2	...	...	20	...	...	·44	·74
	Total	59	53	52	64	60	58	41	53	47	52	64	57	487	173	660	·76	·51	·67	·73

TABLE of Deaths registered from OTHER CAUSES by Section and Month in 1913.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of population. Males.	Females.	Total.	Mean Ratio per 1,000 of population during the previous 5 years.
A	Upper Colaba	1	2	2	1	2	1	2	2	1	2	1	3	...	...	20	...	...	12·84	14·88
	Middle and Lower Colaba	19	13	21	22	16	13	15	10	12	13	12	18	...	...	184	...	...	9·55	8·26
	Fort, South	2	...	...	1	...	1	...	1	1	...	1	2	...	...	9	...	...	2·59	4·79
	Fort, North	35	25	20	33	32	23	14	32	32	40	23	21	...	...	330	...	...	13·99	12·97
	Esplanade	13	13	8	7	11	11	7	10	11	15	12	10	...	...	128	...	...	7·20	11·59
B	Mandvi	27	21	34	33	25	21	29	24	19	32	26	24	...	...	315	...	...	9·48	13·10
	Chukla	31	20	32	39	29	32	19	27	27	26	27	24	...	...	333	...	...	18·74	16·11
	Umarkhadi	62	54	53	66	61	52	54	55	64	50	53	68	...	...	692	...	...	15·14	18·64
	Dongri	28	20	20	22	24	22	24	24	16	25	18	23	...	...	266	...	...	9·76	12·06
C	Market	26	17	18	25	19	31	21	30	19	21	23	12	...	...	262	...	...	8·68	9·80
	Dhobi Talao	29	22	42	36	37	29	37	41	35	57	44	32	...	...	441	...	...	11·40	12·15
	Fanaswadi	28	19	31	20	19	21	20	25	18	25	29	34	...	...	284	...	...	10·36	9·29
	Bhuleshwar	43	41	26	40	48	32	34	37	34	45	48	40	...	...	468	...	...	12·83	12·97
	Khara Talao	35	26	29	37	47	31	24	37	37	32	36	31	...	...	402	...	...	17·49	17·63
	Kumbharwada	37	28	26	23	25	24	34	32	40	40	42	34	...	...	385	...	...	15·89	11·73
D	Khetwadi	31	34	22	23	33	38	26	36	22	34	41	32	...	...	372	...	...	11·64	10·72
	Girgaum	34	38	36	34	30	25	31	28	38	38	19	30	...	...	381	...	...	12·57	12·96
	Chowpati	11	12	12	11	13	14	13	10	9	6	12	7	...	...	130	...	...	11·40	9·61
	Walkeshwar	5	12	12	10	9	4	4	6	9	8	8	8	...	...	95	...	...	8·92	7·41
	Mahalakshmi	23	19	19	18	29	22	21	20	17	18	29	19	...	...	264	...	...	9·65	9·40
E	Mazagon	33	21	29	28	37	22	20	36	23	28	30	26	...	...	333	...	...	11·07	13·51
	Tarwadi	52	39	26	44	28	25	45	45	32	43	28	41	...	...	448	...	...	15·76	16·02
	2nd Nagpada	28	22	35	27	29	30	33	34	32	28	31	27	...	...	346	...	...	15·94	19·27
	Kamathipura	44	49	44	42	43	47	42	47	38	51	41	50	...	...	538	...	...	14·63	17·70
	Tardeo	31	24	25	35	39	36	39	31	29	28	30	27	...	...	374	...	...	13·47	13·91
	Byculla	82	67	70	81	81	79	101	80	100	68	79	80	...	...	968	...	...	12·84	14·71
	1st Nagpada	6	5	6	8	7	5	3	5	10	7	4	4	...	...	68	...	...	10·60	14·01
F	Parel	35	26	43	40	40	33	41	34	41	37	42	38	...	...	450	...	...	9·89	10·33
	Sewri	20	13	15	19	13	19	18	16	11	17	11	19	...	...	190	...	...	9·96	10·26
	Sion	30	30	33	33	33	21	32	35	39	32	35	44	...	...	397	...	...	12·94	12·91
G	Mahim	36	29	20	23	27	24	26	33	27	24	32	40	...	...	341	...	...	11·18	10·16
	Worli	71	62	59	76	51	60	66	69	66	66	62	70	...	...	780	...	...	8·70	9·99
	Harbour, Docks, Railways and Homeless	4	5	2	2	...	2	1	...	1	1	1	3	...	...	22	...	...	·48	·83
	Total ...	992	825	870	961	937	840	898	952	905	957	930	941	5,618	5,388	11,006	8·77	15·88	11·23	12·15

COMPARATIVE TABLE of Deaths from some of the PRINCIPAL CAUSES during 1913 and the preceding 5 years.

YEAR.	Cholera.		Small-pox.		Measles.		Plague.		Malaria.		Enteric Fever.		Other Fevers.		Diarrhœa and Dysentery.		Tubercle including Tubercle of Lungs.		Respiratory System.				Injuries.		All other Causes.		Total Deaths.	
																			Phthisis.		Other Diseases of the Respiratory System.							
	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.
1908 ...	95	·09	1,026	1·04	653	·66	5,361	5·43	331	·33	111	·11	2,961	3·02	3,184	3·25	636	·65	2,387	2·44	8,954	9·15	808	·82	11,764	12·02	38,271	39·13
1909 ...	727	·74	473	·48	75	·07	5,197	5·31	293	·29	92	·09	2,415	2·45	2,585	2·64	447	·45	2,415	2·46	7,974	8·15	698	·71	11,487	11·74	34,878	35·66
1910 ...	107	·10	1,008	1·03	184	·18	3,656	3·73	293	·29	156	·15	2,664	2·72	3,352	3·42	557	·56	2,282	2·33	8,212	8·39	701	·71	11,761	12·02	34,933	35·72
1911 ...	123	·12	443	·45	652	·66	4,006	4·09	334	·34	145	·14	2,667	2·72	3,075	3·13	616	·62	2,078	2·12	8,640	8·82	702	·71	11,480	11·72	34,961	35·69
1912 ...	1,730	1·82	979	·99	210	·21	1,717	1·75	360	·35	152	·15	3,078	3·13	4,544	4·63	615	·62	2,179	2·22	9,686	9·88	680	·69	12,969	13·24	38,954	39·77
Mean of the preceding 5 years.	566	·58	784	·80	356	·36	3,988	4·07	322	·32	131	·13	2,756	2·81	3,348	3·42	574	·58	2,268	2·31	8,693	8·88	718	·75	11,892	12·15	36,899	37·19
1913 ..	125	·12	212	·21	222	·22	2,609	2·66	261	·26	154	·15	2,628	2·68	3,173	3·23	519	·52	1,633	1·66	8,604	8·78	660	·67	11,006	11·23	31,806	32·47

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SPECIFIC CAUSES of DEATHS in 1913 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London.

	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
	GENERAL DISEASES.													
1	Small-pox	3	16	41	64	38	9	17	11	4	1	2	6	212
2	Cow-pox	...	...	...	1	...	...	...	...	...	...	...	...	1
3	Chicken-pox	1	...	...	...	1	1	...	...	...	...	...	...	3
4	Measles	14	14	47	42	22	10	7	5	6	9	16	30	222
8	Plague	41	122	456	880	729	139	79	60	41	33	21	8	2,609
9	Relapsing Fever	1	...	1	...	...	...	...	...	...	1	...	1	4
10	Dengue	...	...	...	...	...	...	...	...	...	...	2	...	2
11	Influenza	...	...	1	...	...	...	...	...	...	...	...	...	1
12	Whooping Cough	1	...	...	1	1	...	1	...	...	...	...	3	9
13	Mumps	...	...	...	2	...	...	...	...	...	...	...	...	2
14	Diphtheria	...	...	...	1	1	...	...	1	...	...	2	...	4
15	Cerebro-Spinal Fever	2	...	3	9	3	4	3	3	1	1	...	1	31
16	Simple Continued Fever	4	...	3	...	...	...	...	...	...	...	...	2	7
17	Enteric Fever	7	9	12	17	22	13	9	12	20	14	9	10	154
18	Cholera	49	15	5	4	6	2	7	9	10	8	4	6	125
19	Choleraic Diarrhœa	...	...	3	...	...	...	...	...	...	...	...	...	3
20	Diarrhœa	178	195	213	188	219	168	188	237	206	193	173	210	2,353
21	Dysentery	102	79	85	67	54	42	56	71	99	49	42	73	820
23	Beri-Beri	...	...	...	...	...	...	...	...	1	...	...	...	2
24	Malarial Fever	20	15	18	20	19	13	14	20	25	41	36	20	261
	Ague and Remittent	214	202	289	226	251	214	170	222	219	240	223	204	2,824
25	Phagedæna	...	...	...	...	...	...	...	1	...	...	...	...	1
26	Erysipelas	1	2	3	3	1	...	...	...	1	2	...	1	14
27	Pyæmia	...	...	1	...	2	1	5	2	...	...	2	1	14
28	Septicæmia	3	7	4	4	3	5	6	7	7	7	4	5	63
	Puerperal	28	17	20	27	25	13	3	20	17	32	45	34	281
	Septic Disease	1	...	...	...	...	6	4	1	1	...	1	2	16
	Blood Poisoning	...	...	1	...	...	...	1	...	...	...	1	1	4
	Septic Fever	...	2	2	2	2	3	...	3	1	1	...	1	17
29	Tetanus	9	9	7	10	13	7	4	6	6	5	10	13	99
	Idiopathic	...	...	...	...	...	1	...	...	...	...	...	...	1
	Coma	...	...	...	...	...	...	...	...	...	...	2	...	2
	Toxemia	...	...	...	...	...	...	...	1	...	...	...	1	2
30	Tubercle of Lungs	15	18	12	16	21	16	22	20	10	21	14	10	195
	Tuberculosis	23	4	18	6	14	8	15	5	10	21	19	14	156
	Other Tubercular Affections	18	11	10	13	17	14	11	21	19	21	10	8	168
	Scrofula	7	2	6	4	9	3	2	3	6	6	4	2	54
	Tabes Mesenterica	1	1	...	1	...	...	...	1	...	2	...	...	6
31	Leprosy	3	7	7	8	7	7	6	9	10	8	9	10	90
	Cancer	4	3	4	5	8	2	5	9	6	7	6	5	64
33	Syphilis	10	4	3	7	5	4	5	8	4	1	5	3	59
	Secondary	2	4	1	1	1	...	...	4	...	2	2	...	17
	Teritary	...	...	3	...	1	...	...	...	1	3	...	...	8
	Cachexia	...	...	...	...	...	...	...	...	...	1	...	...	1
	Syphilitic Thrombosis	...	...	...	...	...	1	...	...	...	...	...	...	1
	,, Paraplegia	...	...	...	...	1	...	...	...	...	...	...	...	1
	Syphilis Cirrhosis	1	...	...	...	...	...	...	1	...	...	...	...	2
35	Hydrophobia	1	2	...	...	1	1	1	1	1	3	...	1	12
36	Glanders	...	...	...	...	...	...	...	1	...	...	...	...	1
40	Worms	5	3	3	2	1	3	1	1	1	3	3	4	30
54	Scurvy	...	...	1	...	2	...	...	...	...	...	...	...	3
58	Rheumatic Fever	...	...	...	...	...	...	...	...	1	...	1	...	2
59	Rheumatism	4	8	6	3	6	3	7	5	4	5	5	3	59
	Syphilitic	1	1	...	...	...	...	...	...	1	...	...	...	3
63	New Growth Non-Malignant	...	1	...	2	...	...	...	...	...	...	...	...	3
	Filariasis	...	...	...	1	...	...	...	...	...	...	...	...	1
64	New Growth, Malignant	...	1	1	...	1	2	...	1	1	2	...	...	9
	Endothelioma	...	...	1	...	...	...	...	...	...	...	...	...	1
	Sarcoma	1	2	1	2	1	...	...	...	...	1	1	1	10
65	Rickets	90	74	95	117	97	97	96	91	87	68	88	70	1,065
68	Anæmia	53	39	39	39	39	41	40	30	44	54	35	54	507
69	Chlorosis	...	...	...	...	1	...	1	1	...	3	2	...	7
70	Pernicious Anæmia	10	12	9	13	7	11	8	7	...	...	...	...	77
	Profused Anæmia	...	1	...	...	...	...	...	...	...	...	...	...	1
72	Leuchæmia	...	1	1	...	...	...	...	...	...	...	...	...	2
75	Diabetes Mellitus	2	...	1	1	4	5	4	8	4	5	2	3	39
	Diabetic Coma	...	1	...	...	...	2	...	...	...	...	1	2	6
	Diabetic Gangrene	...	1	...	...	...	...	...	...	...	2	...	...	3
77	Immaturity at Birth	12	19	11	13	6	7	17	19	22	21	18	15	180
	Malnutrition	...	...	1	...	...	...	...	...	...	...	...	...	1
79	Debility	172	139	139	178	152	156	219	240	249	238	213	209	2,289
80	Old Age	190	151	159	139	122	96	106	117	126	152	145	148	1,651

20—*continued.*

SPECIFIC CAUSES of DEATHS in 1913 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*continued.*

	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
	DISEASES OF THE NERVOUS SYSTEM.													
83	Meningitis	2	7	9	7	6	4	6	3	4	9	5	2	64
	Cerebral Meningitis	1	...	...	...	5	...	1	1	1	...	...	...	9
	Cerebro Spinal Meningitis	...	...	...	11	2	3	...	...	...	1	1	3	21
85	Myelitis	...	...	1	...	2	...	...	...	1	2	2	1	9
	Locomotor Ataxy	...	...	...	...	1	...	...	...	...	...	...	...	1
	Arterio Sclerosis	...	...	...	...	2	...	...	...	...	1	...	...	3
	Icterus Neonatorum	...	...	...	...	...	...	...	...	...	1	...	1	2
	Tabes Dorsalis	...	...	...	...	...	...	...	...	...	...	1	...	1
90	Hæmorrhage	...	...	...	...	...	...	...	...	1	...	...	...	1
	" " lateral Ventricle	...	...	1	...	...	...	...	...	...	...	...	...	1
	" " in the brain	1	1	...	...	1	2	1	...	...	2	...	...	8
	" " Spinal Cord	1	...	...	...	...	...	...	...	...	...	...	...	1
	" " Subdural	1	...	...	...	...	...	...	...	...	...	...	...	1
95	Cerebral Softening	...	...	1	...	...	1	...	...	...	...	...	...	2
	" Hæmorrhage	3	2	3	3	10	1	6	6	6	5	4	4	53
	Sea Sickness Fever	...	...	1	...	...	...	...	...	...	...	...	...	1
97	Congestion	...	...	...	...	...	...	...	...	...	...	1	...	1
	Brain Fever	...	...	...	...	...	...	...	...	1	...	...	...	1
	Thrombosis Cerebral	1	1	...	2	...	1	1	...	...	1	1	...	8
101	Hydrocephalus	...	...	...	...	...	1	1	1	...	...	...	...	3
102	Apoplexy	2	3	2	3	2	2	1	...	...	1	1	1	18
	Cerebral Apoplexy	...	...	...	1	...	...	...	1	1	1	...	1	5
103	Paralysis	10	8	7	8	10	8	10	7	8	11	9	10	106
	Paraplegia	1	3	3	1	1	...	...	...	3	1	4	1	23
	Hemiplegia	13	11	8	7	8	8	10	10	4	11	11	9	110
117	Eclampsia	...	...	...	4	...	...	...	...	2	4	5	...	15
	" Infantile	120	101	108	135	157	129	112	126	88	123	100	131	1,430
	" Puerperal	2	...	2	...	1	...	...	2	2	...	...	...	9
118	Epilepsy	4	1	4	3	1	3	...	1	2	4	2	1	26
	" Fits	...	1	...	1	...	1	...	...	1	...	...	...	4
130	Tetany	...	...	1	...	...	...	1	...	...	...	...	...	2
	Arsenical Neuritis	...	...	1	...	...	...	...	...	...	...	...	...	1
127	Hysteria	2	1	...	...	...	...	...	1	...	...	...	...	4
135	Nervous Weakness	1	1	...	...	...	...	...	...	...	...	...	1	3
136	Cretenoid Idiocy	...	...	1	...	...	...	...	...	...	...	...	...	1
137	Mania	1	2	2	2	3	1	...	...	...	2	1	3	15
138	Melancholia	...	...	...	...	...	...	1	...	...	...	...	...	1
139	Dementia	...	...	...	...	...	1	...	...	...	...	...	...	1
	DISEASES OF THE EYE, EAR & NOSE.													
143	Ophthalmia	...	...	1	...	...	...	...	...	...	...	...	...	1
	Otorrhœa	...	...	...	1	...	...	...	...	...	...	...	...	1
	Mastoid Abscess	...	...	...	...	...	1	1	...	1	...	1	...	4
185	Panophthalmitis	...	...	...	...	...	...	...	...	...	1	...	...	1
	DISEASE OF THE CIRCULATORY SYSTEM.													
252	Pericarditis	...	...	...	...	...	...	1	...	...	1	...	...	2
253	Endocarditis	2	...	...	...	...	...	2	1	...	1	1	...	7
	" Rheumatic	...	...	...	...	...	...	1	...	...	...	...	...	1
259	Valvular disease of Heart	26	11	18	19	15	20	10	7	9	9	18	9	171
	Abdominal Aneurysm	1	...	...	...	...	...	...	...	...	...	...	...	1
	Mitral and aortic regurgitation	2	2	3	...	2	...	...	...	1	2	2	1	15
	Aneurism of the Arch of Aorta	1	1	...	...	1	...	1	...	1	...	...	...	5
	Mitral incompetency	1	1	...	...	...	...	...	...	...	1	...	...	3
	Thoracic Aneurysm	...	1	...	...	...	1	...	...	...	...	...	...	2
	Mitral Stenosis and regurgitation	...	1	...	...	...	...	2	2	...	1	...	...	6
	Atheroma	...	...	1	...	...	...	...	...	...	...	...	...	1
	Aneurysm of Cardiac Axis	...	...	...	...	...	...	...	...	...	...	...	1	1
260	Myocarditis	...	...	...	...	...	...	...	...	1	...	...	...	1
261	Cardiac Asthma	...	...	1	...	...	...	...	...	...	...	...	...	1
	" Debility	1	...	...	...	...	...	...	...	...	...	...	...	1
	" Dropsy	...	...	...	...	1	...	...	...	...	1	...	...	2
264	Dilatation of Heart	1	...	...	...	...	...	1	...	1	1	...	...	4
265	Fatty Heart	...	...	...	...	1	...	...	...	1	1	...	...	3
266	Aneurysm of Heart	...	...	...	...	1	...	...	...	1	...	...	...	2
269	Pulmonary Embolism	...	...	...	...	...	...	2	...	1	...	1	...	4

20—*continued.*

SPECIFIC CAUSES of DEATHS in 1913 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*continued*.

	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total
271	Angina Pectoris	2	5	3	3	2	3	1	...	4	1	3	3	30
272	Syncope	2	...	1	...	...	3	2	...	...	3	...	2	13
	Heart failure	5	1	6	7	4	8	10	6	7	4	5	4	67
276	Degeneration of Coronary Arteries	...	...	1	...	...	...	...	...	...	...	...	...	1
280	Aneurysm	...	...	...	...	2	...	...	...	...	1	...	...	3
284	Rupture of Aneurysm of Aorta ...	...	1	1	...	...	...	...	...	...	...	...	...	2
288	Obstruction of the portal vein ...	...	...	...	...	...	...	...	...	1	...	...	...	1
290	Thrombosis of Cerebral Arteries ...	1	...	...	...	...	...	1	...	...	1	...	1	4
	DISEASES OF THE RESPIRATORY SYSTEM.													
302	Laryngitis	1	1	...	...	...	...	...	...	...	...	...	...	2
	Laryngial Stricture	1	...	...	...	...	...	...	...	...	...	...	...	1
314	Bronchitis	109	91	112	150	145	138	129	125	115	103	101	87	1,405
	„ Catarrhal	1	...	...	1	...	...	...	...	...	...	...	...	2
	„ Capillary	52	39	57	53	74	51	68	77	45	47	50	44	657
315	Bronchitis (Acute or Chronic) ...	171	116	102	108	119	70	94	93	102	110	116	124	1,275
322	Spasmodic Asthma	174	113	138	130	125	74	98	97	81	117	114	129	1,390
	DISEASES OF LUNGS.													
323	Congestion	1	...	...	...	...	...	...	...	...	...	...	...	1
	Hæmoptysis	1	...	...	1	...	...	...	...	...	...	...	...	2
	Atelectasis	1	...	...	...	...	...	...	...	...	...	...	...	1
	Difficulty of breathing	...	...	...	...	...	...	...	...	...	1	...	...	1
325	Œdema	1	...	...	...	...	...	...	...	...	...	...	...	1
	„ of lung	...	...	...	...	...	...	...	...	...	1	...	...	1
326	Pneumonia	229	242	277	209	254	150	145	120	113	146	200	218	2,303
	„ Lobar	10	9	8	7	1	3	4	...	1	1	5	7	56
	„ Double	7	9	8	3	4	8	8	...	1	2	3	4	57
	„ Pleuro	2	...	...	...	2	...	1	2	...	...	...	2	9
	„ Catarrhal	...	1	...	...	...	...	...	...	...	...	...	...	1
	„ Crupous	...	2	...	2	...	...	...	...	...	...	...	...	4
327	Broncho-Pneumonia	93	104	135	150	153	111	136	103	91	82	91	117	1,366
334	Phthisis	139	129	155	149	171	125	113	141	129	140	130	112	1,633
336	Emphysema	5	4	1	2	1	1	2	4	2	3	4	4	33
	DISEASES OF THE PLEURA.													
339	Pleurisy	2	2	...	5	1	1	2	2	3	4	1	2	25
	„ with effusion	1	...	1	1	...	...	...	...	...	...	...	...	3
	Pleurodyna	...	...	...	...	...	...	...	...	1	...	...	...	1
343	Pneumothorax	...	1	1	2	...	1	2	...	...	...	...	...	7
	DISEASES OF THE DIGESTIVE SYSTEM.													
348	Stomatitis	...	...	...	...	2	1	...	...	...	...	1	1	5
360	Cancrum Oris	...	...	...	...	...	...	...	...	...	...	1	...	1
	Thrush	1	...	...	...	...	...	...	...	...	...	...	...	1
353	Disorders of Dentition	15	8	19	27	31	22	43	37	28	16	16	26	288
357	Tonsillitis	1	...	...	...	...	...	...	...	...	...	3	...	4
399	Stricture of Œsophagus	...	...	...	1	...	...	...	1	...	...	...	1	3
402	Gastritis	1	...	2	1	1	...	1	...	...	...	...	1	7
403	Gastric Ulceration	...	...	...	...	1	...	...	...	1	1	...	...	3
	Bowel Complaint	...	...	...	...	...	...	...	2	...	...	...	...	2

20—*continued.*

SPECIFIC CAUSES of DEATHS in 1913 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*continued.*

	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
414	Gastro-Enteritis	5	5	3	4	6	7	2	10	8	5	...	3	58
415	Stricture of Stomach	...	1	...	...	...	...	...	...	...	...	...	...	1
419	Dyspepsia	2	4	4	1	4	...	1	1	1	...	...	2	21
	,, Acute	1	...	...	...	...	...	...	...	...	...	...	...	1
426	Vomiting ,, ...	1	...	...	1	...	...	...	...	...	1	...	...	3
	Infantile biliary Cirrhosis ...	...	...	...	1	...	...	...	...	...	...	...	...	1
	Intestinal Toxæmia	...	...	...	...	...	...	...	...	...	...	1	...	1
433	Inflammation of Intestines ...	...	1	...	...	...	...	...	...	...	...	...	...	1
	Enteritis	4	6	10	9	9	6	8	8	10	8	9	19	106
	Muco-Enteritis	...	...	...	1	...	2	2	3	1	...	1	...	10
	Entrocolitis	1	...	...	1	...	...	...	...	...	...	...	...	2
	Colitis	2	...	...	...	...	...	...	1	...	...	1	2	6
	Appendicitis	1	2	2	...	...	3	1	2	1	...	1	1	14
	Muco-Colitis	...	...	...	...	...	2	...	...	...	...	...	...	2
434	Ulceration Duodenal	...	1	...	...	...	...	...	...	...	...	...	...	1
444	Sprue	11	12	8	7	12	7	14	9	5	10	4	9	108
445	Hernia	...	...	1	2	...	...	...	1	...	1	1	1	7
	Inguinal	...	2	...	...	...	...	...	...	...	...	1	...	3
	,, Strangulated	2	...	1	...	3	3	1	3	...	1	1	...	15
458	Intestinal obstruction	1	3	4	3	3	3	4	2	...	1	1	4	29
455	Perforation	...	...	...	1	...	1	...	...	2	...	1	1	6
461	Colic	...	...	1	...	2	...	1	...	...	...	...	...	4
466	Ulceration of Rectum	...	...	...	...	...	...	1	...	...	...	...	...	1
	,, ,, Intestines	...	...	...	...	...	...	...	1	...	...	...	...	1
468	Fistula in ano	...	...	...	...	1	1	...	2	...	1	...	1	6
	schio and Rectal Abscess ...	...	1	...	...	...	...	...	1	...	...	...	...	2
475	Prolapse of Rectum	...	...	...	...	...	1	...	...	...	...	...	...	1
477	Piles	6	...	2	2	4	2	...	4	2	2	...	...	25
	Hæmorrhoids bleeding	...	4	...	...	2	...	...	1	3	3	2	1	16
479	Hepatitis	8	13	9	11	18	18	15	7	12	13	24	15	158
	Cirrhosis of liver	12	8	7	5	10	10	6	5	3	3	3	6	83
	Enlargement of liver	2	...	...	1	1	1	1	...	1	1	...	1	9
	Liver abscess	5	4	2	3	4	2	5	3	1	3	5	3	40
	Hepatic Abscess	1	1	1	1	2	2	1	3	1	2	3	2	20
	Liver Complaint	1	...	...	...	...	1	...	...	...	1	...	...	3
	Liver Inflammation	...	1	...	...	...	...	...	...	...	...	...	...	1
	Appendicular abscess	...	...	1	...	...	...	...	...	...	...	...	...	1
	Yellow Atrophy of liver	...	...	...	...	...	...	...	...	...	1	...	...	1
481	Congestion of liver	1	...	1	...	2	1	1	2	...	...	2	...	10
	Hypertrophic Cirrhosis of liver ...	1	...	...	...	...	...	...	...	...	...	1	...	2
484	Atrophy of liver	...	1	...	1	...	...	...	1	...	...	...	...	3
486	Jaundice	3	4	...	2	2	6	...	3	1	2	4	2	29
498	Hæmorrhage of the Pancrea ...	...	...	...	...	...	...	...	...	...	...	1	...	1
502	Peritonitis	3	4	3	2	1	3	1	4	3	1	3	2	29
	Perinium Abscess	1	...	...	...	...	...	...	...	...	...	...	...	1
	Suppurative Peritonitis	...	...	...	...	1	...	...	...	...	...	...	...	1
	Peritonitis Puerperal	...	...	...	...	...	...	...	...	1	...	...	...	1
	Peritonitis Perforative	...	...	1	...	...	...	...	...	...	...	...	...	1
503	Dropsy	8	9	2	4	9	4	10	6	4	4	7	10	77
	DISEASES OF THE LYMPHATIC SYSTEM.													
506	Spleen enlargement	1	...	...	...	...	...	...	...	...	...	...	...	1
518	Lymphangitis	...	...	...	...	...	...	...	2	...	1	...	...	3

20—*continued.*

SPECIFIC CAUSES of DEATHS in 1913 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*continued.*

	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
522	Elephantiasis	...	1	...	...	...	1	...	2	1	...	...	...	5
526	Thymic enlargement	...	...	...	...	...	...	...	1	...	...	...	...	1
528	Inflammation of the Thyroid ...	...	...	...	...	...	...	1	...	...	...	...	...	1
	DISEASES OF THE URINARY SYSTEM.													
538	Acute nephritis	4	3	6	6	3	4	5	3	4	3	2	3	46
539	Bright's disease	18	21	19	14	10	13	8	18	15	10	8	19	173
	Granular kidney	1	...	...	...	...	1	...	...	1	1	...	1	5
	Renal colic	...	1	...	...	...	...	...	...	...	...	...	...	1
	Kidney disease	...	...	...	...	...	...	...	...	...	2	2	1	5
	Hydro-pyo-nephrosis	...	...	...	1	...	...	...	...	...	1	1	...	3
	Pyo-Nephritis	...	...	...	...	1	...	...	...	...	2	...	...	3
541	Pyelitis	...	...	...	...	...	1	...	...	...	1	1	...	3
552	Suppression of Urine ...	...	...	...	...	1	...	...	...	...	...	...	...	1
	Uræmia	2	...	2	2	1	1	3	...	2	1	3	2	19
	Coma	...	1	...	...	...	...	...	...	1	...	...	...	2
	Intoxication	...	...	...	...	...	...	...	...	...	...	1	...	1
556	Albuminuria	1	...	1	1	...	...	3	...	2	1	1	...	10
561	Cystitis	1	1	2	1	...	1	...	1	5	1	...	...	13
563	Sloughing of bladder	...	1	...	...	...	...	1	...	...	...	...	...	2
572	Calculus Vesical	1	...	2	1	1	...	1	...	1	1	1	...	9
574	Retention of Urine	...	...	1	...	1	...	...	...	...	...	...	...	2
	DISEASES OF THE GENERATIVE SYSTEM.													
578	Abscess Urethral	...	1	...	...	...	...	...	...	...	...	...	...	1
581	Stricture Urethra	1	...	1	1	1	...	...	...	1	...	...	...	5
585	Extravasation of urine	...	...	...	1	...	...	...	...	...	...	3	...	4
587	Prostatitis	...	...	...	...	1	...	...	...	...	...	...	...	1
591	Enlarged prostate	...	...	...	...	...	1	...	1	1	...	...	1	4
604	Gangrene Benis	...	...	...	...	...	...	...	...	...	...	...	1	1
610	Abscess scrotum	...	...	...	...	...	...	...	...	...	...	1	...	1
	Gangrene „	...	...	1	...	...	...	...	1	...	...	...	...	2
611	Sloughing scrotum	...	...	...	...	...	2	...	...	...	...	...	...	2
617	Hydrocele	...	...	...	...	1	...	...	...	...	...	1	...	2
	Ovarian disease	...	...	...	...	...	...	...	...	...	...	1	...	1
639	Salpingitis	...	...	...	...	...	...	...	2	...	...	1	...	3
640	Pyosalpinx	1	...	2	...	...	...	...	...	1	...	...	...	4
650	Abscess Pelvic	...	...	...	...	...	...	1	...	...	...	...	...	1

20—*continued.*

SPECIFIC CAUSES of DEATHS in 1913 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*continued.*

	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
	Pelvic Peritonitis	...	...	...	1	...	...	...	...	...	1	...	...	2
	„ Cellulitis	...	...	...	...	1	2	...	...	...	...	...	...	3
651	Rupture of Uterus during labour...	1	...	...	...	...	...	...	...	...	...	...	...	1
	Tubal Rupture	...	...	...	1	...	...	...	...	...	...	...	...	1
687	Leucorrhœa	...	...	1	1	...	...	...	...	...	1	1	...	4
	Pregnancy	...	...	...	1	...	...	...	...	...	...	...	...	1
699	Hæmorrhage uterine	1	...	...	...	...	...	...	...	...	...	3	...	4
700	Abortion	2	1	1	3	2	2	2	...	...	...	...	1	14
	Child-birth	...	1	...	...	...	...	...	...	...	...	...	...	1
	Extra uterine gestation	...	...	...	...	1	...	...	...	...	...	...	...	1
709	Pregnancy accidental Hæmorrhage	...	...	...	...	...	...	...	1	...	...	...	...	1
711	Retention of the placenta... ...	...	...	...	...	...	...	...	...	1	1	...	...	2
	Placenta prævia	...	...	...	...	1	...	1	2	...	...	...	...	4
	Labour and exhaustion	7	5	4	6	5	5	...	5	5	7	4	3	56
	Pain in the womb	1	...	...	2	...	...	...	...	...	...	...	...	3
712	Still-birth	114	94	107	120	104	118	144	173	168	171	145	134	1,592
713	Asphyxia of infant	1	1	...	...	...	...	...	...	...	...	...	...	2
	Obstructed labour	...	...	1	...	...	...	...	1	...	...	...	...	2
714	Post-partum hæmorrhage	3	1	1	2	2	1	2	...	2	1	1	...	16
	Premature labour	1	...	...	...	...	...	...	...	...	...	...	...	1
	Difficult „	...	1	1	...	2	...	1	...	...	1	1	1	8
718	Sudden death after delivery ...	1	...	...	...	...	...	...	...	...	1	1	...	3
	DISEASES OF THE ORGANS OF LOCOMOTION AND CONNECTIVE TISSUE.													
734	Chronic Abscess	...	...	...	1	...	2	...	...	1	...	...	...	4
	Sloughing glands in the axilla ...	...	...	...	1	...	...	...	...	...	...	...	...	1
735	Caries	2	1	1	...	...	...	...	...	...	...	...	1	5
	Sinus	...	...	...	...	...	...	...	2	...	...	...	...	2
746	Arthritis	...	...	...	1	...	...	...	...	...	...	...	...	1
	Suppuration	2	...	...	...	...	...	1	...	...	...	...	...	3
	Synovitis	2	...	2	...	...	...	...	...	...	...	...	...	4
	Ankylotomiasis	...	...	...	...	...	...	...	...	...	...	1	...	1
749	Ankylosis	...	...	...	1	...	...	...	...	...	...	...	...	1
753	Dislocation of hip joint	...	...	...	...	...	...	...	1	...	...	...	...	1
760	Caries of spine	1	...	...	...	...	...	...	...	...	...	...	1	2
761	Necrosis	...	...	1	...	1	...	1	...	...	...	...	...	3
762	Psoas, lumbar, post-pharyngeal and other abscesses	...	...	1	...	...	...	...	...	...	...	...	...	1

20—*concluded.*

SPECIFIC CAUSES of DEATHS in 1913 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*concluded.*

	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
763	Pott's disease...	1	...	...	...	...	...	1	...	...	...	...	...	2
798	Cellulitis	1	1	1	...	1	1	2	...	2	...	...	2	11
	Diffused septic	...	1	1	...	...	...	...	2	...	...	...	...	4
799	Abscess	1	1	2	3	5	1	5	5	3	...	2	...	28
800	Gangrene	3	2	...	1	2	2	...	2	1	3	...	3	19
802	Anasarca	...	...	2	...	3	...	2	...	...	...	...	...	6
	OTHER LOCAL DISEASES.													
811	Eczema	...	1	...	...	...	...	...	...	...	...	...	...	1
820	Pemphigus	...	...	...	...	...	...	...	...	...	...	1	...	1
846	Carbuncle	...	...	2	...	...	2	1	2	1	2	...	1	11
	Ulcer	...	...	3	1	...	...	2	...	1	1	1	1	10
	Drowning	7	6	3	10	13	13	12	4	5	2	5	6	86
	Burns and Scalds	8	2	14	3	5	3	3	5	2	4	7	7	63
	Privation and Starvation	17	18	9	11	1	6	8	7	10	12	7	21	122
	Vehicles, Horses and Bullocks ...	5	5	8	7	8	3	2	5	5	7	3	4	67
	Ships, Boats and Docks, excluding drowning	1	3	...	...	1	...	...	3	...	1	3	...	12
	Building operations...	...	...	1	...	...	...	1	...	...	...	...	...	2
	Fall from houses, trees, stairs, &c.	1	2	1	2	4	1	2	1	4	2	1	1	22
	Sunstroke	...	...	1	...	1	3	...	...	...	...	...	...	5
	Machinery	3	2	2	6	1	...	...	1	1	...	3	1	20
	Suffocation and strangulation ...	2	...	...	1	1	1	...	...	1	1	1	3	11
	Otherwise or not stated	4	5	3	9	12	18	10	16	8	10	18	8	116
	Incised penetrating and multiple wounds	...	1	...	1	2	1	3	...	2	1	...	...	11
	Suicides other than drowning and poisoning	2	1	2	3	2	1	1	...	...	5	2	1	20
	Fall of earth, rocks, stones, houses, bales, trees, &c., on body ...	...	2	2	4	2	3	1	4	3	1	3	...	30
	Gunshot wounds	3	...	...	1	...	...	...	...	...	...	...	...	4
	Poisons, poisonous vapours and animals	6	6	6	5	6	5	2	7	6	5	6	5	65
	Heat Apoplexy	...	...	...	1	1	1	...	...	...	...	...	...	3
	Explosions	...	...	...	...	...	...	...	...	...	1	...	...	1
	Unspecified causes	3	2	2	1	1	4	3	1	...	2	2	1	22

TABLE of VACCINE OPERATIONS performed in the City of Bombay in 1913.

Ward.	SECTION.	Population (Census of 1911).	Number of Depôts in each District.	Number of Vaccinators in each District.	Number of persons vaccinated.			Average number of persons vaccinated by each Vaccinator	Primary Vaccinations.								Re-vaccinations.			Percentage of successful cases where results were known.		Persons successfully vaccinated per 1,000 of population.	Average annual number of persons successfully vaccinated during the past 5 years.		Average annual number of deaths from Small-pox during the past 5 years.		Average cost of each successful Vaccination.
									Total.			Successful.																
					Males.	Females.	Total		Males.	Females.	Total.	Under one year.	One year & under 6 years.	6 years and above.	Total.	Unknown.	Total.	Successful.	Unknown.	Primary Vaccinations.	Re-vaccinations.		Number.	Ratio per 1,000 population.	Number.	Ratio per 1,000 population.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
																											Rs. a. p
A	Upper Colaba	1,557	1		1,077	316	1,393		235	209	444	310	80	...	390	42	949	8	942	97·01	42·85	18·51	368	17·33	...	...	
	Middle and Lower Colaba	19,679																							6	·35	
	Fort, South	3,463	1		704	368	1,072		278	251	529	398	99	12	509	15	548	6	527	99·03	37·50	17·84	475	16·46	2	·53	
	Fort, North	35,400																							15	·54	
	Esplanade	17,761	...	1	6,880	1,641	8,521		124	90	214	97	27	...	124	88	8,307	24	8,276	98·41	77·42	8·33	143	8·05	8	·58	
B	Mandvi	83,202	1		256	265	521		249	257	506	317	114	13	444	48	15	...	15	96·94	.....	13·37	408	12·29	16	·44	
	Chukla	24,231			254	262	516		254	261	515	352	121	1	474	24	1	...	1	96·54	.....	19·56	490	20 22	9	·32	
	Umerkhadi	45,679	1	1	541	487	1,028		504	473	977	673	203	3	877	56	51	5	43	95·22	62·50	19·31	863	18·89	34	·67	
	Dongri	27,246			416	422	838		562	421	783	564	133	3	700	37	55	...	54	93·83	.....	25·69	802	29·44	14	·45	
C	Market	30,172			244	266	510		217	251	468	293	110	2	405	51	42	...	41	97·12	.....	18·42	403	13·36	19	·57	
	Dhobi Talao	38,684	1	1	621	513	1,134		435	411	846	598	138	17	753	71	288	3	283	97·14	50·00	19·54	743	19·21	46	1·22	
	Fanaswadi	27,403			293	285	578		265	267	532	370	104	8	482	41	46	3	41	98·17	60·00	17·70	469	17·11	35	·87	
	Bhuleshwar	36,459			264	276	540		251	275	526	331	129	1	461	49	14	...	14	96·65	.....	12·64	466	12·78	19	·50	
	Khara Talao	22,979	1	1	3,067	969	4,036		275	276	551	398	68	3	469	61	3,485	...	3,484	95·71	.....	20·41	417	18·15	15	·59	
	Kumbharwada	27,703			332	366	698		324	360	684	542	79	2	623	32	14	...	13	95·55	.....	22·49	608	21·95	26	·84	
D	Khetwadi	31,937			352	388	740		325	364	689	519	110	7	636	37	51	3	45	97·55	50·00	20·08	605	18·94	20	·60	
	Girgaum	50,779	1		419	404	823		396	390	786	545	183	10	738	33	37	...	31	98·01	.....	23·98	695	22·58	31	1·05	
	Chaupati	11,397			147	164	311		140	154	294	210	63	4	277	11	17	...	16	97·88	.....	24·30	250	21·93	5	·40	
	Walkeshwar	10,640	1	...	180	168	348		138	133	271	207	54	2	263	4	72	...	71	98·50	.....	24·71	211	19·83	2	·16	
	Mahalakshmi	26,502			355	354	709		322	340	662	527	95	6	626	21	47	2	43	97·66	50·00	23·88	549	20·87	18	·71	
E	Mazagaon	30,075	1	...	418	382	800		346	357	703	522	105	10	637	21	97	1	94	93·40	33·33	21·22	602	20·02	32	1·04	
	Tarwadi	28,424			560	489	1,049		300	349	649	476	90	4	570	55	400	2	397	95·96	66·66	20·12	605	17·77	25	·92	
	2nd Nagpada	21,700																							13	·59	
	Kamathipura	36,751	1	1	897	932	1,829		828	906	1,734	1,270	239	2	1,511	146	95	1	91	95·15	25·00	17·54	1,411	16·87	43	1·47	
	Tardeo	27,758																							24	·85	
	Byculla	75,848	1		812	827	1,639		718	784	1,502	1,123	230		1,358	108	137	4	131	97·42	66·66	16·66	1,253	15 33	104	1·37	
	1st Nagpada	6,414																							5	1·09	
F	Parel	45,474	1		549	569	1,118		496	534	1,030	762	164	9	935	58	88	2	80	96·19	25·00	20·61	948	20·85	54	1·16	
	Sewri	19,067			281	323	604		254	320	594	435	91	1	527	54	10	...	10	97·59	.....	27·64	408	21·40	11	·68	
	Sion	30,680	1	1	531	537	1,068		473	455	928	654	181	6	841	63	140	...	140	97·23	.....	27·41	723	23·57	21	·68	
G	Mahim	30,492	1		827	809	1,636		755	795	1,550	1,137	269	12	1,418	81	86	2	82	96·58	50·00	46·57	1,265	41·49	15	·48	
	Worli	39,611			802	774	1,576		796	770	1,566	1,198	212	6	1,416	91	10	...	9	96·00	.....	15·80	1,327	14·81	89	1·14	
	Harbour, Docks, Railways and Homeless ...	44,979	...	...	5,194	504	5,698		172	195	367	88	26	...	114	253	5,331	675	1,358	100·00	16·57	17·54	413	9·18	30	·53	
	Total ...	9,79,445	14	6	27,273	14,055	41,328	6,889	10,252	10,648	20,900	14,915	3,514	149	18,578	1,651	20,428	736	16,231	96·51	17·59	19·72	17,820	18·19	736	·80	1 8 2

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TABLE of Births registered and of Vaccinations of Infants under one year of age performed in the year 1913.

Ward.	SECTION.	Total number of births exclusive of still-born.	Still-born.	Deaths under one year.	Number of Infants surviving.	Number of Infants vaccinated under one year.	Percentage of vaccinations to births registered.
A	Upper Colaba	95	1	13	82	341	93·42
	Middle and Lower Colaba	270	31	123	147		
	Fort, South	12	1	2	10	413	82·37
	Fort, North	490	44	166	324		
	Esplanade	195	13	68	127	122	62·56
B	Mandvi	410	48	207	203	355	86·58
	Chukla	461	45	183	278	383	83·08
	Umarkhadi	1,043	106	421	622	741	71·04
	Dongri	531	46	240	291	623	117·32
	Market	304	27	160	144	336	110·52
C	Dhobi Talao	800	66	341	559	647	80·87
	Fanaswadi	558	29	145	413	401	71·86
	Bhuleshwar	564	65	360	204	371	65·78
	Khara Talao	475	43	188	287	452	95·15
	Kumbharwada	559	50	231	328	591	105·72
D	Khetwadi	666	60	327	339	555	83·33
	Girgaum	609	45	203	406	577	94·74
	Chowpati	235	17	66	169	220	93·61
	Walkeshwar	208	18	44	164	214	102·88
	Mahalakshmi	567	53	166	401	556	98·05
	Mazagaon	747	72	274	473	572	76·57
	Tarwadi	855	62	429	426	529	61·87
E	2nd Nagpada	527	53	209	318	1,427	73·70
	Kamathipura	745	76	312	433		
	Tardeo	664	53	294	370		
	Byculla	1,791	148	734	1,057	1,283	63·39
	1st Nagpada	154	5	28	126		
F	Parel	1,118	45	362	756	826	73·88
	Sewri	454	19	207	247	477	105·06
	Sion	789	43	276	513	720	91·25
G	Mahim	952	68	282	670	1,218	127·94
	Worli	1,795	141	724	1,071	1,305	72·70
	Harbour, Docks, Railways and Homeless	1	...	3	...	280	...
	Total ...	19,644	1,592	7,488	12,158	16,485	83·91

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TABLE of Primary Vaccinations performed with different kinds of Lymph in 1913.

	Number of operations.	Successful.	Unknown.	Percentage of success after deducting the unknown cases.
I Calf Lymph	4,796	4,387	322	98·05
II Glycerinated Lymph	16,113	14,200	1,329	96·05
III Lanolinated Lymph	.....	.....	.....	.....
IV Human Lymph	.....	.....	.....	.....
Total ...	20,909	18,587	1,651	96·52

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TABLE of prosecutions instituted by the Vaccination Department in 1913.

1	2	3	4	5	6	7
Section of the Act.	Nature of the Charge.	Number of Cases instituted.	Number of Cases discharged.	Otherwise.	Number of Cases convicted.	Amount of Fines inflicted.
Section VII of the Bombay Vaccination Act I of 1877.	.....	...	...	...	...	...

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TABLE of DEATHS by Disease

Ward.	SECTION.	GENERAL DISEASES.																		
					FEVERS.															
		Small-pox.	Measles.	Plague.	Scarlet Fever.	Enteric Fever.	Malarial Fever.	Ague and Remittent Fever.	Relapsing Fever.	Influenza.	Whooping Cough.	Diphtheria.	Cholera.	Diarrhœa.	Dysentery.	Puerperal Septicæmia.	Leprosy.	Cancer.	Premature Birth.
A	Upper Colaba	...	...	2	...	...	1	3	...	...	...	1	...	5	1	...	...	...	...
	Middle and Lower Colaba	...	1	137	...	8	10	47	...	...	...	...	3	24	21	...	...	...	5
	Fort, South	...	...	2	...	3	3	5	...	...	...	...	...	2	1	...	...	...	...
	Fort, North	3	1	64	...	11	20	84	...	...	...	...	1	46	19	6	...	5	17
	Esplanade	5	...	12	...	3	31	116	...	...	...	...	2	70	15	1	...	2	7
B	Mandvi	4	1	135	...	4	16	101	...	...	...	...	3	58	22	7	...	1	3
	Chukla	...	2	73	...	1	7	38	1	...	1	1	2	50	18	12	...	1	...
	Umarkhadi	5	2	132	...	4	12	146	...	...	...	...	8	135	45	17	...	4	13
	Dongri	7	6	115	...	2	12	121	...	...	...	...	6	42	44	3	1	...	5
C	Market	3	1	85	...	6	16	54	...	...	...	...	10	41	8	3	...	...	1
	Dhobi Talao	9	7	79	...	15	17	61	...	...	...	...	10	64	16	10	...	3	17
	Panaswadi	5	11	77	...	3	4	45	...	...	1	...	2	31	12	3	...	2	7
	Bhuleshwar	1	3	80	...	5	5	47	...	...	...	...	3	129	19	7	1	6	7
	Khara Talao	...	6	58	...	2	7	58	...	...	...	...	2	45	19	23	1	1	2
	Kumbharwada	6	12	98	...	...	4	48	...	...	...	...	7	55	20	3	...	...	2
D	Khetwadi	2	7	83	...	18	6	38	...	...	1	...	3	31	21	7	2	3	9
	Girgaum	5	6	41	...	11	3	41	...	1	...	...	4	22	19	7	...	4	26
	Chowpati	1	2	3	...	3	2	12	...	...	1	...	1	11	3	1	1	1	9
	Walkeshwar	1	...	6	...	...	5	7	...	...	...	...	...	3	7	1	...	2	6
	Mahalakshmi	...	6	86	...	9	3	62	...	...	2	1	1	52	21	6	3	4	1
E	Mazagon	16	5	103	...	6	7	157	...	...	1	...	5	97	39	9	...	3	8
	Tarwadi	24	10	90	...	5	25	132	...	...	...	...	4	139	76	13	...	3	4
	2nd Nagpada	1	9	26	...	1	5	58	...	...	...	...	1	75	16	11	...	...	1
	Kamathipura	8	3	51	...	2	2	142	2	...	...	...	5	92	19	23	1	1	6
	Tardeo	11	15	55	...	5	3	72	...	...	...	...	2	110	23	10	2	...	4
	Byculla	32	26	135	...	8	5	258	1	...	...	...	10	280	30	23	3	2	13
	1st Nagpada	...	1	7	...	1	...	15	...	...	...	...	1	5	3	5	...	1	1
F	Parel	15	12	144	...	2	3	164	...	...	1	1	12	147	23	9	...	2	2
	Sewri	6	1	61	...	...	2	60	...	...	...	...	2	89	23	4	...	2	...
	Sion	13	5	80	...	2	...	65	...	...	...	...	...	84	39	7	74	3	1
G	Mahim	14	10	123	...	3	3	58	...	...	1	...	2	106	37	10	...	4	1
	Worli	17	46	417	...	6	3	246	...	...	...	...	12	203	73	20	2	4	3
	Harbour, Docks, Railways and Homeless	...	...	1	...	5	4	13	...	...	...	...	1	5	3	...	...	...	...
	TOTAL	212	222	2,609	...	154	261	2,624	4	1	9	4	125	2,353	820	281	90	64	181

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and Section in 1913.

Debility.	Old Age.	Tubercle of Lungs.	All other Tubercular Diseases.	Other General Diseases.	LOCAL DISEASES. Nervous System.	Diseases of the Ear and Nose.	Circulatory System.	Respiratory System. Phthisis.	Other Diseases of the Respiratory System.	Digestive System.	Lymphatic System.	Urinary System.	Generative System.	Still-born.	Organs of Locomotion and Connective Tissue.	Other Local Diseases.	INJURIES. General. Drowning.	Other General Injuries.	Local Injuries.	Poison.	Unspecified Causes.	TOTAL.
1	1	4	3	6	2	...	1	...	15	6	...	2	...	1	...	...	2	...	...	...	...	56
36	16	3	1	44	42	1	8	19	137	26	...	7	6	31	2	...	...	3	4	4	1	606
...	...	1	2	4	1	...	4	...	10	...	...	...	...	1	...	...	...	1	1	...	...	40
38	41	7	20	78	64	...	25	40	195	39	...	17	6	44	2	1	4	7	9	3	...	864
19	10	29	9	21	18	...	11	23	131	20	...	12	4	13	1	...	3	42	5	1	2	628
51	51	6	12	77	55	1	10	30	414	38	...	12	7	48	...	...	1	10	7	2	2	1,191
51	58	5	12	36	52	...	18	103	239	33	...	8	5	45	4	3	2	5	6	...	...	896
100	155	11	19	127	179	...	19	144	581	58	...	12	4	106	3	1	1	12	12	2	...	1,963
91	45	4	15	40	34	...	7	46	299	27	...	4	2	46	2	...	2	9	8	2	...	1,000
42	39	3	14	54	41	1	18	43	236	35	...	14	4	27	5	...	1	7	3	1	...	794
39	59	12	23	62	65	...	25	35	294	34	4	16	15	66	5	2	2	7	5	4	...	1,101
48	39	6	11	57	42	...	13	25	179	50	1	10	8	29	2	1	...	5	...	2	...	707
71	71	8	8	127	62	2	17	18	386	64	1	9	15	65	4	...	1	13	6	4	4	1,209
63	82	10	8	63	97	...	6	70	206	42	...	7	10	42	4	1	1	10	2	1	...	997
60	51	3	6	99	100	...	8	69	250	47	...	4	5	50	...	1	3	12	4	3	...	985
60	46	5	16	78	63	...	16	71	247	52	...	12	10	60	5	2	2	5	8	3	1	888
42	58	3	15	77	63	...	8	61	250	59	2	23	3	45	6	3	1	3	2	4	...	877
16	10	5	11	22	28	...	8	14	57	25	...	4	2	17	2	...	1	1	2	1	...	263
10	8	1	4	19	16	...	4	13	64	19	...	4	1	18	2	...	3	1	...	...	...	205
49	36	2	5	55	56	...	8	36	156	21	1	7	2	53	1	1	2	5	4	1	1	705
74	68	2	6	50	75	...	8	21	275	19	...	5	9	72	2	...	4	7	15	...	2	1,098
133	50	21	18	67	66	...	15	41	311	59	...	13	12	62	13	1	4	68	12	6	...	1,479
50	67	6	8	99	84	...	2	33	227	21	...	4	3	53	3	...	5	6	7	2	1	881
110	101	8	13	121	96	...	7	152	415	58	...	11	1	76	1	...	2	13	6	5	1	1,478
60	39	4	8	111	83	...	7	74	248	46	1	5	4	53	2	...	1	7	8	1	...	1,016
232	158	5	27	228	138	...	20	100	862	118	...	7	7	148	10	2	3	23	12	4	2	2,839
5	10	2	4	16	14	...	4	14	44	8	...	1	1	5	1	1	1	4	1	...	...	176
167	43	7	2	95	67	1	8	36	367	38	...	13	...	45	3	...	4	10	3	1	...	1,412
83	16	...	1	36	36	...	...	12	160	8	...	3	1	19	1	...	2	3	2	1	...	614
141	30	4	6	55	38	1	6	29	220	36	...	11	1	43	...	...	7	9	1	4	3	966
83	49	4	10	40	63	...	23	49	284	31	...	24	5	68	5	1	6	8	1	1	1	1,059
245	149	4	5	143	119	...	14	118	650	43	1	16	7	141	9	1	9	22	8	1	1	2,825
1	5	2	2	3	4	...	3	1	10	2	...	2	1	...	...	1	6	10	3	1	...	83
2,239	1,951	195	324	2,259	1,965	7	354	1,633	8,604	1,237	11	298	161	1,593	99	23	86	342	167	65	22	31,806

TABLE of DEATHS by Race, Cause and Sex in 1913.

RACE OR CASTE.	GENERAL DISEASES.																			
	Small-pox.		Measles.		Plague.		Fevers.										Influenza.		Whooping Cough.	
							Scarlet Fever.		Enteric Fever.		Malarial Fever.		Ague and Remittent Fever.		Relapsing Fever.					
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Jains	1	2	3	1	167	28	...	...	4	...	7	5	53	29	...	...	...	...	...	1
Brahmins	3	3	9	3	99	16	...	...	7	3	14	4	66	28	1	...	...	...	1	...
Lingaits	...	1	...	...	2	2	...	...	1	...	1	...	11	6	...	...	...	...	...	...
Bhatias	...	...	...	1	5	2	...	...	2	...	1	4	8	11	...	...	...	...	...	...
Hindus of other Castes	75	50	52	53	1,045	543	...	...	22	14	59	32	889	473	2	...	...	...	1	2
Hindus, Low Caste	16	19	38	35	144	107	...	...	...	...	7	6	199	102	...	...	...	...	...	...
Mussulmans	11	6	11	9	220	76	...	...	7	4	45	12	315	199	1	...	...	...	...	...
Parsees	...	2	3	...	19	24	...	...	21	21	10	8	25	30	...	...	...	...	...	2
Jews	1	...	...	...	4	3	...	...	1	...	3	1	7	5	...	...	...	...	...	...
Native Christians	15	5	...	2	68	30	...	...	10	12	18	8	40	53	...	...	1	...	1	1
Eurasians	...	...	...	...	...	...	...	...	2	4	2	3	2	3	...	...	...	...	...	...
Europeans	...	2	1	1	...	4	...	...	18	...	3	5	3	4	...	...	...	...	...	...
Negro-Africans	...	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...
Buddhists	...	...	...	...	...	...	...	...	1	...	3	1	2	...	...	...	...	...	...	...
Other and Unknown Castes ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
All Castes ... Males	122	...	117	...	1,773	...	...	...	96	...	172	...	1,621	...	4	...	1	...	3	...
All Castes ... Females	...	90	...	105	...	833	...	...	...	58	...	89	...	1,003	...	...	...	...	...	6
All Castes ... Persons	212		222		2,609		...		154		261		2,624		4		1		9	

26—*continued.*

TABLE of DEATHS by Race, Cause and Sex in 1913—*continued.*

RACE OR CASTE.	GENERAL DISEASES—*contd.*																			
	Diphtheria.		Cholera.		Diarrhœa.		Dysentery.		Puerperal Septicæmia.		Leprosy.		Cancer.		Premature Birth.		Debility.		Old Age.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Jains	...	...	5	2	39	42	18	10	...	12	...	...	5	...	4	3	38	30	29	23
Brahmins	...	...	4	...	43	21	41	10	...	5	...	...	2	...	7	4	40	19	39	34
Lingaits	...	...	...	...	4	5	5	...	...	1	...	...	...	...	...	1	9	4	4	6
Bhatias	...	...	...	...	6	6	2	3	...	3	...	...	1	...	2	...	6	3	7	15
Hindus of other Castes	...	...	48	29	550	480	247	150	...	112	48	19	12	7	45	17	671	550	278	477
Hindus, Low Caste	...	...	5	2	209	204	49	47	...	38	3	3	1	1	8	4	192	143	51	78
Muselmans	1	1	13	4	293	315	110	50	...	98	6	4	7	7	12	5	252	178	254	270
Parsees	...	...	2	1	37	51	16	17	...	...	...	...	7	6	14	10	18	17	20	37
Jews	...	...	...	...	8	6	6	6	...	5	...	...	...	1	2	1	4	7	1	8
Native Christians	...	...	4	5	69	49	20	19	...	7	6	1	4	2	14	18	58	47	14	22
Eurasians	...	...	...	...	1	10	1	1	...	...	...	...	...	...	3	2	...	1	..	...
Europeans	2	...	...	2	...	3	5	6	...	...	...	...	...	1	1	1	...	1	1	1
Negro-Africans	...	...	...	...	1	1	...	...	...	...	...	...	..	...	...	...	...	...	...	2
Buddhists	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other and Unknown Castes ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	1	...	1	...	...
All Castes... Males	3	...	80	...	1,230	...	501	...	...	...	63	...	39	...	114	...	1,288	...	683	...
All Castes... Females	...	1	...	45	...	1,093	...	319	...	281	...	27	...	25	...	67	...	1,001	...	968
All Castes... Persons	4		125		2,353		820		281		90		64		181		2,289		1,651	

TABLE of DEATHS by Race, Cause and Sex in 1913—*continued.*

RACE OR CASTE.	GENERAL DISEASES—*concluded.*						LOCAL DISEASES.													
	Tubercle of Lungs.		Other Tubercular Diseases.		Other General Diseases.		Nervous System		Diseases of the Eye, Ear and Nose.		Circulatory System.		Respiratory System. Phthisis.		Respiratory System. Other Diseases of the Respiratory System.		Digestive System.		Lymphatic System.		Urinary System.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Jains	2	...	8	10	44	42	59	51	1	...	18	3	13	32	264	159	41	25	...	...	10	6
Brahmins...	3	2	7	14	44	32	30	37	...	...	10	3	27	29	193	129	35	27	1	1	7	7
Lingaits	...	...	1	...	9	4	5	3	...	...	...	...	6	4	22	18	1	1	...	...	1	...
Bhatias	...	1	1	2	10	4	18	8	...	...	7	1	2	12	41	23	9	10	...	...	4	1
Hindus of other Castes ...	49	32	50	64	494	514	395	370	4	...	89	26	344	366	2,477	1,754	314	167	2	...	61	53
Hindus, Low Caste	2	2	5	10	100	182	145	119	...	..	11	7	59	91	611	546	65	61	...	...	5	5
Mussulmans	51	7	33	35	264	351	287	221	1	...	45	16	232	353	1,079	784	171	84	...	...	35	20
Parsees	5	2	12	25	60	62	74	64	...	...	33	26	7	11	84	82	52	41	2	4	18	21
Jews	1	1	...	2	8	4	8	7	...	...	1	2	3	3	15	16	2	3	...	...	...	...
Native Christians	20	10	20	26	33	36	46	43	...	1	22	16	17	25	149	99	50	34	...	1	15	18
Eurasians	...	2	1	...	5	5	1	1	...	...	2	1	...	1	10	8	5	5	...	...	...	2
Europeans	2	...	...	2	6	3	10	4	...	...	10	4	2	2	21	9	19	13	...	...	3	4
Negro-Africans	...	...	...	...	...	1	1	1	...	...	1	...	...	1	1	3	2	...	...	...	1	...
Buddhists...	1	...	...	1	2	...	1	...	...	...	...	...	...	1	...	1	1	1	...	...	1	...
Other and Unknown Castes ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	5	1	...	...	...	...	...	...
All Castes ... Males	136	...	133	...	1,089	...	1,056	...	6	...	249	...	702	...	4,972	...	767	...	5	...	161	...
All Castes ... Females ...	...	59	...	191	...	1,190	...	909	...	1	...	105	...	931	...	3,632	...	470	...	6	...	137
All Castes ... Persons... ...	195		324		2,279		1,965		7		354		1,633		8,604		1,237		11		298	

TABLE of DEATHS by Race, Cause and Sex in 1913—*concluded.*

RACE OR CASTE	LOCAL DISEASES—*concld.*								INJURIES.													
	Generative System.		Still-born.		Organs of Locomotion and Connective Tissue.		Other Local Diseases.		General.				Local Injuries.		Poisons.		Unspecified Causes.		All Causes.			
									Drowning.		Other General Injuries.											
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Persons.
Jains	1	10	24	14	4	2	...	...	2	...	6	7	8	1	5	...	1	...	835	514	1,349
Brahmins	1	7	35	21	2	4	1	1	...	2	4	8	4	1	3	1	...	1	708	451	1,159
Lingaits	...	...	3	8	...	...	...	...	1	...	...	...	...	...	...	...	...	...	83	56	139
Bhatias	...	4	11	3	...	1	...	1	...	...	2	1	2	...	...	...	...	...	131	117	248
Hindus of other Castes ...	6	61	402	267	22	18	7	3	38	16	138	42	59	20	23	6	12	...	8,621	6,520	15,141
Hindus, Low Caste ...	...	8	140	128	2	4	...	...	4	...	18	14	11	3	1	3	2	2	1,965	1,851	3,816
Mussulmans	11	30	198	134	16	10	4	2	9	3	60	18	27	8	9	2	3	...	3,894	3,082	6,976
Parsees	3	10	51	27	3	1	2	...	2	1	4	1	6	1	6	2	...	...	565	580	1,145
Jews	...	...	10	5	1	...	...	...	...	...	1	...	...	2	...	...	...	...	76	83	159
Native Christians ...	...	6	40	37	5	5	1	1	3	2	10	1	6	...	1	...	...	...	730	602	1,332
Eurasians	...	...	2	3	...	1	...	...	...	...	...	...	1	...	...	...	...	...	36	50	86
Europeans	1	2	3	4	...	...	...	...	3	...	2	1	3	2	1	2	...	...	117	79	196
Negro-Africans	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	9	11	20
Buddhists	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	5	17
Other & Unknown Castes.	...	...	22	20	...	...	...	...	...	...	3	5	...	2	...	...	...	1	12	11	23
All Castes... Males ...	23	...	936	...	55	...	15	...	62	...	249	...	127	...	49	...	18	...	17,794	...	
All Castes... Females ...	...	138	...	656	...	44	...	8	...	24	...	93	...	40	...	16	...	4	...	14,012	
All Castes... Persons ...	161		1,592		99		23		86		342		167		65		22				31,806

TABLE of DEATHS by Age, Sex and Cause in 1913.

AGE.		GENERAL DISEASES.																			
		Small-pox.		Measles.		Plague.		Fevers.										Influenza.		Whooping Cough.	
								Scarlet Fever.		Enteric Fever.		Malarial Fever.		Ague and Remittent Fever.		Relapsing Fever.					
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
DAYS	1 to 30	2	1	...	...	...	...	...	...	...	...	...	...	14	15	...	...	...	...	...	1
MONTHS	1 to 6	9	18	6	7	...	...	...	...	...	...	1	4	27	37	...	...	...	...	...	2
	7 to 12	13	12	30	23	...	6	...	...	...	1	6	8	46	47	...	...	...	...	1	1
YEARS	1 to 2	10	9	45	38	...	2	...	...	1	...	5	2	38	55	...	...	...	...	2	1
	2 to 3	7	7	21	18	5	5	...	...	...	1	1	1	14	26	...	...	...	...	...	...
	3 to 4	7	4	6	7	9	9	...	...	...	...	1	3	13	18	...	...	...	...	...	...
	4 to 5	7	1	5	4	13	12	...	...	...	1	4	2	12	24	...	...	...	...	...	...
	5 to 10	12	4	2	4	104	95	...	...	2	8	5	5	84	104	...	...	...	...	...	1
	10 to 15	10	5	1	1	199		...	...	8	7	7	9	100	80	1	...	...	...	...	...
	15 to 20	14	11	1	1	348	148	...	...	22	12	13	10	220	116	...	...	...	...	...	...
	20 to 25	16	12	...	...	365	118	...	...	22	11	26	5	281	136	2	...	...	...	...	...
	25 to 30	8	2	...	2	276	98	...	...	12	6	16	7	255	92	...	...	...	...	...	...
	30 to 35	3	2	...	...	180	69	...	...	8	...	23	7	144	63	1	...	...	...	...	...
	35 to 40	4	...	...	...	128	55	...	...	4	2	15	9	117	61	...	...	...	...	...	...
	40 to 45	...	1	...	...	59	34	...	...	4	3	10	7	52	27	...	...	1	...	...	...
	45 to 50	...	1	...	...	55	29	...	...	6	1	7	2	66	38	...	...	...	...	...	...
	50 to 55	...	...	...	...	41	5	...	...	3	1	10	3	43	11	...	...	...	...	...	...
	55 to 60	...	...	...	...	26	12	...	...	...	1	7	1	50	28	...	...	...	...	...	...
	60 & over	...	...	...	...	15	17	...	...	4	3	15	9	45	26	...	...	...	...	...	...
	Unspecified Age	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
ALL AGES.	Males	122	...	117	...	1,773	...	...	...	96	...	172	...	1,621	...	4	...	1	...	3	...
	Females	...	90	...	105	...	836	...	...	...	58	...	89	...	1,003	...	...	...	...	...	6
	Persons	212		222		2,609		...		154		261		2,624		4		1		9	

TABLE of DEATHS by Age, Sex and Cause in 1913—*continued.*

AGE.		GENERAL DISEASES—*contd.*																			
		Diphtheria.		Cholera.		Diarrhœa.		Dysentery.		Puerperal Septicæmia.		Leprosy.		Cancer.		Premature Birth.		Debility.		Old Age.	
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
DAYS	1 to 30	...	...	...	...	22	12	...	...	...	...	...	...	...	...	114	67	1,088	820	...	...
MONTHS	1 to 6	...	...	...	...	82	56	4	9	...	...	...	...	...	...	...	...	138	121	...	...
	7 to 12	...	...	...	...	200	188	24	18	...	...	...	...	...	...	...	...	18	22	...	...
YEARS	1 to 2	1	...	...	...	153	174	37	33	...	...	...	...	...	...	...	...	14	11	...	...
	2 to 3	...	...	...	1	66	76	24	29	...	...	...	...	...	...	...	...	5	3	...	...
	3 to 4	...	...	...	...	28	37	19	16	...	...	...	...	...	...	...	...	2	1	...	...
	4 to 5	...	...	...	...	16	14	13	18	...	...	...	...	...	...	...	...	...	...	...	...
	5 to 10	1	1	2	3	35	38	32	31	...	...	1	...	...	1	...	...	1	...	...	...
	10 to 15	...	...	1	...	17	37	13	5	...	4	1	...	...	...	...	...	...	...	...	...
	15 to 20	...	...	8	6	39	51	31	17	...	78	7	3	...	...	...	...	...	...	...	...
	20 to 25	...	...	21	7	60	52	47	24	...	96	4	1	...	...	...	...	3	2	...	...
	25 to 30	...	...	17	11	85	50	48	21	...	57	5	4	2	...	...	...	4	1	...	...
	30 to 35	...	...	9	4	70	56	47	21	...	32	3	11	1	6	...	...	2	4	...	...
	35 to 40	...	...	8	4	77	50	39	18	...	9	15	...	2	3	...	...	3	3	...	...
	40 to 45	1	...	4	1	50	29	24	11	...	3	9	2	6	1	...	...	1	3	...	...
	45 to 50	...	...	4	...	69	40	39	13	...	1	4	1	10	6	...	...	9	10	...	...
	50 to 55	...	...	3	5	31	20	10	4	...	1	2	1	3	2	...	...	...	...	10	12
	55 to 60	...	...	2	2	68	48	28	8	...	...	7	1	4	2	...	...	...	...	76	114
	60 and over	...	...	1	1	97	81	22	23	...	...	...	3	11	4	...	...	...	...	597	842
	Unspecified Age	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
ALL AGES.	Males	3	...	80	...	1,260	...	501	...	...	...	63	...	39	...	114	...	1,288	...	683	...
	Females	...	1	...	45	...	1,093	...	319	...	281	...	27	...	25	...	67	...	1,001	...	968
	Persons	4		125		2,353		820		281		90		64		181		2,289		1,651	

TABLE of DEATHS by Age, Sex and Cause in 1913—*continued.*

AGE.		GENERAL DISEASES—*contd.*						LOCAL DISEASES.													
		Tubercle of Lungs.		Other Tubercular Diseases.		Other General Diseases.		Nervous System.		Diseases of the Eye, Ear and Nose.		Circulatory System.		Respiratory System.				Digestive System.		Lymphatic System.		Urinary System.	
														Phthisis.		Other Diseases of the Respiratory System.							
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
DAYS	1 to 30	...	...	...	...	6	8	160	142	...	...	4	1	...	...	42	24	23	13	...	...	1	...
MONTHS	1 to 6	...	...	1	4	45	49	343	351	...	...	...	1	...	...	414	419	35	20	...	...	...	2
	7 to 12	...	...	1	3	132	139	141	141	...	...	...	1	...	...	583	681	152	112	...	1	2	1
YEARS	1 to 2	...	1	2	2	179	139	66	55	...	...	...	1	...	1	387	415	62	57	1	...	1	...
	2 to 3	...	...	1	...	107	88	23	13	...	...	...	1	...	2	130	141	17	10	...	...	...	1
	3 to 4	...	...	1	...	50	48	7	4	...	...	...	...	...	1	55	67	4	6	...	...	...	...
	4 to 5	...	...	1	1	25	33	4	4	...	...	...	1	1	...	44	49	2	3	...	...	...	2
	5 to 10	...	2	3	11	48	72	13	6	3	...	5	1	7	18	138	129	7	12	...	...	1	2
	10 to 15	1	4	3	9	22	45	11	6	...	1	2	2	35	77	96	108	11	4	...	1	2	5
	15 to 20	11	10	16	43	53	110	27	23	2	...	7	4	86	195	296	125	38	26	...	...	8	9
	20 to 25	24	16	25	47	83	130	25	21	1	...	19	16	145	219	357	120	55	42	...	...	9	23
	25 to 30	28	10	19	28	72	113	28	10	...	...	32	18	166	203	377	141	65	34	...	...	21	14
	30 to 35	25	7	18	14	65	51	19	11	...	...	45	7	104	86	280	91	78	23	...	1	8	13
	35 to 40	17	6	14	10	58	40	27	11	...	...	27	12	87	68	299	149	71	26	1	...	15	7
	40 to 45	8	1	10	5	32	25	12	9	...	...	26	7	31	28	191	108	38	21	...	...	16	8
	45 to 50	14	1	5	7	29	23	33	23	...	...	20	6	20	24	367	213	33	15	2	...	18	10
	50 to 55	5	...	1	1	24	9	29	11	...	...	16	1	8	6	193	81	27	12	...	...	15	6
	55 to 60	2	...	11	3	21	13	30	19	...	...	22	10	11	2	388	344	26	13	...	2	13	11
	60 and over	1	1	1	3	27	10	58	49	...	...	24	15	1	1	343	277	33	21	1	1	31	23
	Unspecified Age.	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
ALL AGES.	Males	136	...	133	...	1,069	...	1,056	...	6	...	249	...	702	...	4,972	...	767	...	5	...	161	...
	Females	...	59	...	191	...	1,190	...	909	...	1	...	105	...	931	...	3,632	...	470	...	6	...	137
	Persons	195		324		2,259		1,965		7		354		1,633		8,604		1,237		11		298	

TABLE of DEATHS by Age, Sex and Cause in 1913—*concluded.*

AGE.	LOCAL DISEASES—*concluded.*								INJURIES.										All Ages.
	Generative System.		Still-born.		Organs of Locomotion and Connective Tissue.		Other Local Diseases.		General. Drowning.		General. Other General Injuries.		Local Injuries.		Poisons.		Unspecified Causes.		All Causes.		
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Persons.
DAYS ... 1 to 30 ...	1	1	...	...	2	...	...	...	...	...	4	5	...	2	...	...	...	1	1,483	1,108	2,591
MONTHS 1 to 6 ...	...	...	...	...	1	1	...	1	...	...	...	3	...	...	...	...	2	...	1,098	1,105	2,203
MONTHS 7 to 12 ...	...	...	...	...	...	2	1	1	...	...	1	2	...	...	1	...	...	...	1,342	1,352	2,694
1 to 2 ...	...	...	...	...	...	1	...	...	...	...	3	3	2	2	...	...	...	...	1,009	1,051	2,060
2 to 3 ...	...	...	...	...	...	...	1	1	1	...	...	2	...	1	1	1	...	...	424	427	850
3 to 4 ...	...	...	...	...	...	...	...	...	2	...	3	1	2	...	...	...	...	...	204	222	427
4 to 5 ...	...	...	...	...	...	...	...	...	1	...	6	1	...	...	...	...	...	...	154	170	324
5 to 10 ...	...	...	...	...	3	4	...	...	1	...	11	1	4	4	...	...	1	1	516	558	1,074
10 to 15 ...	...	1	...	...	2	3	...	...	4	3	10	7	6	...	1	1	...	...	564	540	1,104
15 to 20 ...	1	21	...	...	3	3	1	...	8	4	12	11	10	3	6	1	1	1	1,239	1,042	2,281
YEARS... 20 to 25 ...	1	44	...	...	5	9	1	2	12	4	38	14	16	7	16	3	1	...	1,690	1,181	2,871
25 to 30 ...	5	37	...	...	7	4	...	...	12	3	35	5	17	5	9	2	4	...	1,626	978	2,603
30 to 35 ...	2	19	...	...	7	4	...	...	5	2	17	6	17	2	5	4	2	1	1,143	611	1,754
35 to 40 ...	3	10	...	...	3	3	3	3	4	...	29	5	12	2	3	...	1	...	1,085	566	1,651
40 to 45 ...	...	1	...	...	3	2	3	...	2	1	19	4	6	2	3	...	1	...	622	344	966
45 to 50 ...	4	3	...	...	3	2	2	...	3	4	15	8	10	3	1	1	1	...	849	485	1,334
50 to 55 ...	3	1	...	...	3	1	2	...	2	...	13	1	4	...	...	1	...	...	500	196	696
55 to 60 ...	2	...	...	...	4	3	1	...	1	1	20	5	4	2	2	1	2	...	828	646	1,474
60 & over.	2	...	...	...	9	2	1	...	3	2	13	10	7	5	1	1	1	...	1,364	1,430	2,794
Unspecified Age.	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	5	...	5
ALL AGES. Males ...	23	...	936	...	55	...	15	...	62	...	249	...	127	...	49	...	18	...	17,794	...	
ALL AGES. Females.	...	138	...	656	...	44	...	8	...	24	...	93	...	40	...	16	...	4	...	14,012	
ALL AGES. Persons...	161		1,592		99		23		86		342		167		65		22				31,806

TABLE of DEATHS by DISEASE and

Title of Orders.	Occupation or Trade of Family.	GENERAL DISEASES.																
					FEVER.													
		Small-pox.	Measles.	Plague.	Scarlet Fever.	Enteric Fever.	Malarial Fever.	Ague and Remittent Fever.	Relapsing Fever.	Influenza.	Whooping Cough.	Diphtheria.	Cholera.	Diarrhœa.	Dysentery.	Puerperal Septicæmia.	Leprosy.
Professional General	1 (a) Imperial Government Officials, Clerks, &c.	..	..	4	..	5	..	1	..	..	..	..	..	3	1	..	..
Government	2 (b) Foreign Government Consuls, &c.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3 (c) Native States, Chiefs, Staffs, Retinue, &c.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	4 (d) Mul. and Local Government Police, &c.	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..
	Post and Telegraph Office Peons, &c.	3	..	18	..	2	4	18	..	..	..	..	..	6	7	..	..
Defence	5 (d) Army	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
	6 (b) Navy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Learned Professions.	7 (a) Ministers of Religions, Professors, &c.	..	..	8	..	3	3	5	..	..	..	..	1	11	4	..	..
	8 (b) Law, Medical Literature (Science), &c.	..	..	4	..	1	1	..	..	..	..	..	..	..	2	..	..
	9 Unlicensed Practitioners, Dentists, Opticians, Nurses, &c.	..	..	4	..	2	..	2	..	..	..	..	1	1	1	..	1
Commercial	10 (c) General Merchants in Special Goods	..	..	38	..	14	2	20	..	..	..	1	4	14	11	..	..
	11 (b) Bankers, Accountants, Clerks, Capitalists, shroffs, &c.	2	..	40	..	6	7	32	..	..	..	..	3	18	10	..	..
	12 (c) Shopkeepers, other General Dealers, Hawkers, &c.	..	..	103	..	3	7	72	..	..	..	..	3	28	5	2	
	13 (d) Intoxicating Drinks and Drugs Dealers	..	..	12	..	..	..	5	..	..	..	..	..	2	2	..	..
	14 (e) Vegetable Food Dealers	..	..	7	..	..	..	3	..	..	..	..	..	..	1	..	..
	15 (f) Vegetable Substance Makers and Dealers	..	..	3	..	..	..	6	..	..	..	..	..	..	2	..	3
	16 (g) Animal Food Dealers, Fishers, &c.	..	..	15	..	..	..	4	..	..	..	..	1	11	3	..	1
	17 (h) Animal Substance Makers and Dealers	..	..	15	..	..	..	11	..	..	..	..	..	9	5	2	..
	18 (i) Entertainers, Hotel, Club, Refreshment House Keepers	..	..	5	..	..	1	4	..	..	..	..	..	4	1	1	..
	19 (j) Carriers on Road, Horse, Carriage, Cart Keepers	2	..	82	..	2	4	87	..	..	..	..	4	28	14	1	2
	20 (k) Carriers on Sea, Boatmen, Seamen, &c.	..	..	4	..	6	6	32	..	..	..	..	2	8	7	1	..
Railway	21 (a) Officials, Clerks, &c.	..	..	4	..	2	..	3	..	..	..	..	..	..	1	..	
	22 (b) Workshop Servants, &c.	..	..	5	..	1	..	6	..	..	..	..	..	4	1	..	..
	23 (c) Labourers, Earth-workers, &c.	..	..	9	..	..	1	9	..	..	..	..	..	3	2	..	..
Port and Improvement Trust and Harbour.	24 (a) Officials, Clerks, &c.	..	..	1	..	..	..	1	..	..	..	..	..	1	..	..	..
	25 (b) General Labourers, &c.	..	..	5	..	..	2	21	..	..	..	..	3	5	1	..	..
Tramway	26 (a) Officials, Clerks, &c.	..	..	1	..	..	..		..	..	..	..	..	..	1	..	..
	27 (b) General Labourers	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Industrial	28 (a) Metal, &c., Workshop-keepers, Mechanical Tools Makers	..	..	2	..	3	1	1	..	..	..		..	2	..	..	..
	29 (b) Metal, &c., Workshop Servants, Labourers, &c.	1	..	25	..	1	1	..	..	..	..	..	1	11	11	..	..
	30 (a) Mills (Cotton, Silk, &c.), Masters, Managers, Clerks, &c.	..	..	2	..	..	1	30	..	..	..	..	..	4	1	..	..
	31 (b) Weavers, Spinners and other Workers	18	..	369	..	2	5	4	1	..	..	..	19	75	44	17	..
	32 (a) Presses (Printing, &c.), Printers, &c.	2	..	12	..	..	1	348	..	..	..	..	..	6	3	..	10
	33 (b) Other General Labourers	..	..	..	..	..	..	11	..	..	..	..	..	..	..	..	1

OCCUPATION in 1913.

Cancer.	Premature Birth.	Debility.	Old Age.	Tubercle of Lungs.	Other Tubercular Diseases.	Other General Diseases.	LOCAL DISEASES. Nervous System.	Diseases of the Eye, Ear and Nose.	Circulatory System.	RESPIRATORY SYSTEM. Phthisis.	Other Diseases of the Respiratory system.	Digestive System.	Lymphatic System.	Urinary System.	Generative System.	Still-born.	Organs of Locomotion and Connective Tissue.	Other Local Diseases.	INJURIES. GENERAL. Drowning.	Other General Injuries.	Local Injuries.	Poison.	Unspecified Causes.	TOTAL.
..	..	..	1	1	..	9	2	..	3	3	4	2	..	3	..	..	..	1	..	..	1	..	..	44
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	1	..	..	1	1	4	..	..	..	..	..	..	1	..	1	..	..	..	11
1	..	..	5	2	2	7	7	..	6	6	51	6	..	2	1	..	1	..	2	2	1	..	..	160
..	..	1	..	1	..	1	..	..	..	..	5	1	..	1	..	..	..	..	1	..	..	1	..	13
..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	2	..	..	..	..	4
..	..	..	11	1	3	6	2	..	5	4	32	6	..	..	1	..	..	2	1	1	..	..	..	110
..	..	..	2	..	..	3	1	..	..	1	5	1	..	2	..	..	..	..	..	..	1	1	..	25
..	..	..	2	1	1	1	..	..	..	..	3	..	..	..	..	..	..	..	..	1	..	2	..	23
8	..	..	28	2	2	14	13	..	12	12	69	18	..	4	1	..	1	1	1	1	4	1	..	311
5	..	..	22	4	9	36	16	1	25	14	98	29	1	20	..	..	2	..	2	3	5	4	..	413
..	..	1	70	5	6	36	29	..	15	59	276	33	1	4	3	..	..	3	2	1	5	3		828
1	..	..	1	..	..	4	3	..	2	..	9	4	..	2	..	..	..	..	..	2	1	..	..	50
..	..	..	7	..	..	3	3	..	1	1	12	1	..	..	..	..	..	..	..	..	1	1	..	41
..	..	..	4	..	..	2	..	..	..	2	6	2	..	..	..	..	1	..	..	1	..	1	..	32
1	..	..	8	..	..	6	6	..	2	5	30	5	..	2	..	..	..	..	..	1	..	..	..	102
..	..	..	14	1	2	2	2	1	2	7	37	8	..	..	..	..	1	..	..	..	..	1	..	119
..	..	..	4	1	3	4	4	..	2	2	17	5	..	..	..	..	..	..	1	1	1	..	..	62
1	..	1	28	1	1	14	10	..	11	24	130	18	..	2	..	..	..	..	1	7	6	1	..	477
..	..	..	7	4	1	4	8	..	2	16	41	11	..	2	3	..	..	..	2	13	3	1	1	185
..	..	..	..	2	1	2	..	..	4	..	5	3	..	..	..	..	1	..	..	..	3	..	..	30
..	..	..	1	1	..	3	5	..	2	3	13	3	..	1	..	..	1	..	..	2	3	..	..	56
..	..	..	1	..	..	3	..	..	1	2	18	1	..	..	..	..	..	..	..	7	1	1	..	60
..	..	..	..	..	1	1	1	..	..	1	9	2	..	..	1	..	2	..	..	1	..	..	..	20
..	..	..	1	2	5	4	2	..	..	5	52	3	..	..	..	..	..	..	..	5	3	1	1	128
..	..	..	..	..	..	2	..	..	..	..	3	1	..	1	..	..	..	..	..	..	..	1	..	10
..	..	..	1	..	..	..	..	..	..	1	4	1	..	..	..	..	..	..	..	..	..	..	..	9
..	..	..	..	2	..	2	..	..	2	..	1	2	..	..	..	..	..	..	..	..	1	..	..	18
1	..	2	4	4	4	10	8	1	3	17	61	11	..	2	..	..	1	..	1	3	6	2	..	222
..	..	..	..	..	..	1	4	..	..	2	4	2	..	1	..	..	..	..	..	..	..	1	..	27
1	..	8	94	5	4	94	17	..	11	160	501	42	..	14	3	..	8	1	8	24	10	3	2	1,918
..	..	..	2	3	2	2	3	..	..	20	28	6	..	1	..	..	..	2	1	4	1	..	..	109
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE of Deaths by DISEASE and

Title of Orders.	Occupation or Trade of Family.	GENERAL DISEASES.															
					FEVER.												
		Small-pox.	Measles.	Plague.	Scarlet Fever.	Enteric Fever.	Malarial Fever.	Ague and Remittent Fever.	Relapsing Fever.	Influenza.	Whooping Cough.	Diphtheria.	Cholera.	Diarrhœa.	Dysentery.	Puerperal Septicæmia.	Leprosy.
Art	34 (a) Engineers, Photographers, Electricians, Architects	..	..	4	..	3	..	1	..	..	..	..	..	..	..	..	..
	35 (b) Builders in Boats, Houses, Coaches, &c.	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..
	36 (c) Watchmakers, Gilders, Engravers, &c.	..	..	3	..	1	..	1	..	..	..	..	..	1	2	..	..
	37 (d) Metal Workers	..	..	26	..	..	2	24	..	..	..	..	..	18	10	..	..
	38 (e) Wood Workers	..	..	37	..	1	3	38	..	..	..	..	3	18	12	1	2
	39 (f) Stone Workers (Precious) ..	..	..	5	..	..	..	4	..	..	..	..	..	3	1	..	..
	40 (g) Leather Workers	..	..	25	..	..	1	18	..	..	..	..	..	8	2	1	..
	41 (h) Earth, Stone, Clay, &c., Workers	..	..	2	..	..	..	..	..	..	..	..	1	1	1	..	..
	42 (i) Textile Fabrics (Cotton, Silk, &c.), Workers	..	..	4	..	..	..	2	..	..	..	..	..	1	1	1	..
	43 (j) Dyers, Painters, &c.	..	..	11	..	1	..	6	..	..	..	..	..	3	5	..	..
	44 (k) Glass Workers	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
	45 (l) Salt Workers	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	46 (m) Water Workers	..	..	1	..	..	..	5	..	..	..	..	..	..	..	..	..
	47 (n) Miscellaneous Workers ..	..	..	43	..	..	4	40	..	..	..	..	1	20	9	1	1
	48 (o) Players, Actors, Dancers, Prostitutes, &c.	..	..	2	..	..	..	3	..	..	..	..	1	2	3	..	..
Agriculture ..	49 (a) Gardeners, Cultivators, Farmers, &c.	..	..	17	..	1	1	29	..	..	..	..	..	4	7	..	28
	50 (b) Grass, Hay, Forage, &c., Dealers	..	..	2	..	..	..	..	..	..	..	..	..	2	..	..	..
Other and unspecified.	51 (a) Barbers, Washers, Tailors, Cooks, Bakers, &c.	8	..	115	..	4	11	85	1	..	..	..	4	39	17	3	2
	52 (b) General Labourers	9	..	367	..	1	8	350	1	..	..	..	16	104	54	10	14
	53 (c) Domestic Servants, Bhistis, Ayahs, &c.	6	..	42	..	..	4	43	..	..	..	..	3	8	2	1	..
	54 (d) Servants not otherwise described	3	..	185	..	7	19	87	..	..	..	..	6	50	22	2	1
	55 (e) Municipal Bigaries, Halalkhors &c.	1	..	20	..	..	2	35	..	..	..	..	1	14	6	5	..
Persons of independent means.	56 (a) Landlords	..	..	3	..	2	..	2	..	..	..	..	..	5	1	..	..
	57 (b) Pensioners	..	..	2	..	..	1	9	..	..	..	..	..	10	3	..	..
	58 (c) Mendicants, &c.	2	..	19	..	..	9	27	..	..	..	..	4	60	13	..	11
Other	59 (a) Students	2	..	39	..	15	4	17	..	..	..	..	..	2	1	..	2
	60 (b) Prisoners and Convicts ..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..
	61 (c) Others (Pilgrims, Travellers, etc.)	..	..	..	..	1	12	9	..	..	..	..	1	35	7	..	..
	62 Persons following no occupations—Male ..	4	..	81	..	4	29	58	..	..	..	..	7	74	48	..	5
	63 Do. no occupations—Female ..	19	3	376	..	137	47	364	..	..	..	..	26	378	125	228	8
	64 Do. no occupations—Children ..	129	219	379	..	24	57	645	..	..	9	3	5	1,913	302	1	1
	Total ..	212	222	2,609	..	154	261	2,624	4	1	9	4	125	2,353	820	281	90

—*concld.*

OCCUPATION in 1913—*concluded.*

Cancer.	Premature Birth.	Debility.	Old Age.	Tubercle of Lungs.	Other Tubercular Diseases.	Other General Diseases.	LOCAL DISEASES. Nervous System.	Diseases of the Eye, Ear and Nose.	Circulatory System.	Respiratory System. Phthisis.	Other Diseases of the Respiratory System.	Digestive System.	Lymphatic System.	Urinary System.	Generative System.	Still-born.	Organs of Locomotion and Connective Tissue.	Other Local Diseases.	INJURIES. General. Drowning.	Other General Injuries	Local Injuries.	Poison.	Unspecified Cause.	TOTAL.
1	..	..	..	..	..	1	1	..	2	4	9	4	..	..	..	..	..	..	..	1	..	..	..	30
..	..	..	..	..	..	..	..	..	1	..	3	2	..	..	..	..	..	..	..	..	..	..	..	8
..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	..	..	..	..	1	..	..	..	..	12
1	..	1	28	3	3	7	11	..	1	24	67	13	..	3	..	..	..	..	..	1	..	2	..	245
..	..	..	23	3	2	11	6	..	6	20	68	11	..	2	2	..	1	..	1	2	1	..	..	274
..	..	1	8	1	..	1	1	..	1	5	25	2	..	..	..	..	..	..	..	..	1	1	..	60
..	..	..	16	1	1	7	1	..	..	3	44	4	..	..	..	..	..	..	..	..	..	1	..	133
..	..	..	..	..	1	..	1	..	..	1	4	..	..	..	..	..	..	..	..	1	..	..	..	13
..	..	..	3	..	..	2	1	..	1	2	4	2	..	..	..	..	..	..	..	..	..	..	..	24
..	..	..	12	1	1	3	2	..	2	7	30	5	..	2	..	..	..	..	1	2	..	..	1	100
..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	5	..	..	..	..	..	..	..	..	..	2	..	..	14
1	..	..	26	4	2	23	11	..	9	14	38	14	..	7	..	..	2	..	1	2	2	1	..	324
..	..	2	5	..	2	3	3	..	3	16	16	1	..	1	..	..	..	..	..	..	2	..	..	65
2	..	1	16	..	1	12	4	..	1	6	41	11	..	9	1	..	3	..	1	..	..	..	..	187
..	..	..	2	..	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	10
1	..	3	115	9	11	33	23	..	15	50	263	35	..	11	2	..	3	..	1	5	7	1	..	877
2	..	1	79	12	10	59	17	..	16	113	616	38	1	13	7	..	2	..	8	44	33	4	1	2,050
..	..	1	13	3	6	12	4	..	7	23	67	3	..	5	..	..	3	..	1	3	3	2	..	265
2	..	..	34	8	11	41	15	..	20	63	252	47	..	14	..	..	6	1	3	2	3	..	..	901
..	..	..	9	1	3	4	1	..	..	14	78	5	..	2	1	..	2	..	..	4	3	1	..	212
2	..	1	9	..	2	3	1	..	1	2	12	6	..	1	..	..	1	..	..	..	..	..	1	55
1	..	1	29	1	1	4	3	..	3	1	24	4	..	4	..	..	..	..	..	..	..	..	..	106
..	..	3	47	14	14	19	9	..	10	45	140	12	1	9	2	..	2	..	2	16	7	1	2	499
..	..	..	..	..	2	5	3	..	5	5	19	10	..	1	..	..	..	..	2	2	1	..	2	144
..	..	..	1	..	..	..	..	..	1	1	4	1	..	1	..	..	..	..	..	1	1	..	..	18
..	..	4	10	4	1	1	..	..	..	2	16	..	..	3	..	..	2	1	..	23	1	..	..	133
7	..	5	100	37	31	58	43	..	32	73	218	48	1	17	4	..	12	1	15	57	12	9	4	1,094
24	..	12	760	44	132	425	166	..	86	663	1,155	203	3	106	127	..	23	4	14	49	14	9	2	5,628
1	181	2,240	..	6	39	1,247	1,484	4	18	95	3,750	529	3	22	2	..	16	5	10	49	13	5	4	12,710
64	181	2,283	1,651	195	324	2,259	1,965	7	354	1,633	8,604	1,287	11	298	161	..	99	23	86	342	167	65	22	31,806

TABLE of DEATHS by Race, Age and Sex in 1913.

RACE.	Ages.																			
	1 to 30 days.		1 to 6 months.		7 to 12 months.		1 to 2 years.		2 to 3 years.		3 to 4 years.		4 to 5 years.		5 to 10 years.		10 to 15 years.		15 to 20 years.		20 to 25 years.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Jains	47	30	40	47	72	62	38	32	9	16	8	7	7	4	20	18	48	25	104	62	76	66
Brahmins	50	24	34	31	59	56	37	41	17	14	3	4	7	5	8	21	11	22	72	51	91	38
Lingaits	9	5	7	4	3	8	5	5	4	4	3	1	...	2	1	3	3	2	1	2	10	3
Bhatias	8	5	9	6	10	5	5	6	...	...	3	...	1	...	5	2	4	4	8	16	1	12
Hindus of other Castes ...	711	557	463	475	586	653	483	491	193	208	103	104	80	84	270	274	299	241	691	442	893	557
Hindus, Low Caste	224	172	193	171	258	246	169	211	83	90	26	47	25	29	70	81	58	51	121	121	153	120
Mussalmans	267	181	242	242	254	199	193	180	93	73	48	50	21	30	116	124	107	153	207	268	358	325
Parsees	56	31	37	30	51	52	36	44	9	10	4	3	4	6	10	18	8	16	26	28	27	26
Jews	6	8	5	5	5	7	11	8	3	1	1	2	2	...	1	2	1	5	4	5	7	5
Native Christians	88	78	75	83	34	51	27	32	10	11	4	2	7	8	12	12	21	18	48	42	63	46
Eurasians	3	4	9	5	1	4	1	...	1	...	...	2	...	1	2	1	2	1	2	1	...	6
Europeans	4	4	2	4	9	8	3	...	2	...	1	...	...	1	1	2	2	...	4	3	5	4
Negro-Africans	...	...	1	1	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...	...	2	1
Buddhists	1	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	1	4	2
Other and Unknown Castes ...	9	9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
All Castes ... Males ...	1,483	...	1,098	...	1,342	...	1,009	...	424	...	204	...	154	...	516	...	564	...	1,289	...	1,690	...
All Castes ... Females ...	...	1,108	...	1,105	...	1,352	...	1,051	...	427	...	222	...	170	...	558	...	540	...	1,042	...	1,181
All Castes ... Persons ...	2,591		2,203		2,694		2,060		851		426		324		1,074		1,104		2,331		2,871	

TABLE of DEATHS by Race, Age and Sex in 1913—*concluded.*

Race.	Ages—*concld.*																			
	25 to 30 years.		30 to 35 years.		35 to 40 years.		40 to 45 years.		45 to 50 years.		50 to 55 years.		55 to 60 years.		60 and over.		Unspecified Ages.		All Ages.		Persons.
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females	Males.	Females.	Males.	Females.	Males.	Females.	
Jains	72	27	46	27	42	20	46	19	24	14	40	9	33	14	63	45	...	...	335	514	1,349
Brahmins	61	26	45	16	43	21	36	7	23	11	26	9	27	14	53	40	...	...	708	451	1,159
Lingaits	7	1	4	4	9	1	2	1	3	1	2	1	6	3	4	5	...	...	83	56	139
Bhatias	6	6	8	3	6	7	7	3	10	14	17	3	5	4	18	21	...	...	131	117	248
Hindus of Other Castes	914	438	608	297	550	263	280	152	417	217	218	97	351	321	518	649	3	...	3,621	6,520	15,141
Hindus, Low Caste	123	128	93	58	79	56	39	19	72	54	16	4	78	85	85	108	...	...	1,965	1,851	3,816
Mussalmans	344	262	246	135	271	145	135	88	218	113	105	36	241	141	427	337	1	...	3,894	3,082	6,976
Parsees	23	31	28	24	19	24	24	21	27	32	29	21	44	28	114	135	...	...	565	580	1,145
Jews	5	5	1	1	1	3	3	3	6	2	3	1	6	6	5	14	...	...	76	83	159
Native Christians	55	40	42	29	48	18	37	24	37	21	33	8	31	23	58	56	...	...	739	602	1,332
Eurasians	2	3	1	5	1	4	2	...	4	2	2	2	...	2	3	7	...	...	36	50	86
Europeans	10	8	19	12	15	3	10	7	7	3	8	5	4	4	11	11	...	...	117	79	196
Negro-Africans	3	2	...	...	1	1	1	...	1	1	...	...	1	1	...	1	...	...	9	11	20
Buddhists	2	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	12	5	17
Other and Unknown Castes ...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	...	12	11	23
All Castes. Males	1,625	...	1,143	...	1,085	...	622	...	849	...	500	...	828	...	1,364	...	5	...	17,794	...	
All Castes. Females	...	978	...	611	...	566	...	344	...	485	...	196	...	646	...	1,430	...	...	...	14,012	
All Castes. Persons	2,603		1,754		1,651		966		1,334		696		1,474		2,794		5				31,806

TABLE showing by Race the Rate of Mortality per 1,000 of Population from different Death Causes in 1913.

Race or Caste.	Small-pox.	Measles.	Plague.	All Fevers.	Scarlet.	Enteric.	Malaria.	Ague and Remit-tent.	Relaps-ing.	Cholera.	Diar-rhœa.	Dysen-tery.	Phthisis.	Other Respira-tory Diseases.	Acci-dents.	All Other Causes.	All Causes.
Jains	·14	·19	9·53	4·78	.....	·19	·58	4·00	.....	·34	3·95	1·36	2·19	20·67	1·41	21·30	65·93
Brahmins	·11	·22	2·14	2·29	.....	·18	·33	1·75	·01	·07	1·19	·57	·85	6·00	·33	7·79	21·60
Lingaits	·84	.....	3·39	16·11	.....	·84	·84	14·41	.....	.....	7·63	4·24	8·48	33·92	·84	42·40	117·89
Bhatias	.....	·12	·89	3·34	.....	·25	·64	2·44	.....	.....	1·54	·64	1·79	8·22	·64	14·65	31·87
Hindus of other Castes	·22	·19	2·90	2·72	.....	·06	·16	2·48	.....	·14	1·88	·72	1·29	7·73	·62	9·22	27·67
Hindus, Low Castes...	·68	1·34	4·62	6·89	.....	.....	·23	6·65	.....	·12	7·61	1·77	2·76	21·33	·99	32·19	70·36
Hindus, All Castes...	*·24*	*·28*	*3·75*	*3·11*	.....	*·07*	*·20*	*2·82*	.....	*·13*	*2·35*	*·82*	*1·42*	*9·11*	*·65*	*10·61*	*31·02*
Mussalmans	·09	·11	1·65	3·26	.....	·06	·51	2·87	.....	·08	2·84	·89	3·26	10·41	·73	15·61	39·00
Parsees	·03	·05	·84	2·25	.....	·82	·35	1·07	.....	·05	1·72	·64	·85	3·25	·45	12·78	22·48
Jews	·15	.....	1·06	2·42	.....	·15	·45	1·81	.....	.....	2·12	1·81	·90	4·69	·45	10·45	24·10
Native Christians	·48	.04	2·37	3·39	.....	·53	·62	2·22	.....	·21	2·85	·94	1·01	6·00	·55	14·36	32·27
Eurasians	.....	.....	.....	3·82	.....	1·43	1·19	1·19	.....	.....	2·62	·47	·25	4·29	·23	8·33	20·53
Europeans	·16	·16	·33	2·77	.....	1·51	·67	·58	.....	·16	·25	·92	·38	2·52	1·17	7·65	16·47
Buddhists	.....	.....	.....	12·11	.....	1·73	6·92	3·46	.....	.....	.....	.....	1·73	1·73	.....	13·84	29·41
Other and Unknown Castes	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7·35	.....	4·11	73·52	4·11	169·11
Total	·21	·22	2·66	3·10	.....	·15	·26	2·67	.....	·12	2·37	·82	1·66	8·78	·67	11·76	32·47

TABLE of BIRTHS in different months by Caste and Sex in 1913.

MONTHS.	Jains.		Brahmins.		Lingaits.		Bhatias.		Hindus of other Castes.		Hindus, Low Caste.		Mussalmans.		Parsees.		Jews.		Native Christians.		Eurasians.		Europeans.		Negro-Africans.		Buddhists.		Other and unknown Castes.		TOTAL.		
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Persons.
January	21	18	15	24	1	2	6	10	413	427	127	157	158	157	61	61	10	7	56	44	4	5	8	6	...	...	...	...	...	...	879	918	1,797
February	18	13	15	23	1	2	6	4	340	353	112	106	149	143	47	50	7	4	31	35	2	3	5	7	...	...	...	...	1	2	734	745	1,479
March	30	10	21	10	1	1	3	6	363	354	101	111	128	123	38	46	7	3	29	31	4	2	11	9	...	...	1	...	1	...	738	706	1,444
April	13	13	14	5	1	...	2	1	325	314	96	100	141	120	26	31	7	4	30	35	3	4	3	9	...	...	1	...	...	2	662	638	1,300
May	6	9	22	17	2	...	4	6	289	308	95	102	133	115	47	42	9	4	30	22	1	3	13	10	...	...	...	...	...	...	651	638	1,289
June	9	7	11	9	3	1	2	4	306	310	105	103	135	128	56	38	7	7	43	46	2	4	7	6	...	...	1	1	...	1	687	665	1,352
July	20	10	10	11	2	1	3	5	334	353	110	94	154	158	64	63	4	5	46	30	9	4	4	9	...	...	...	...	...	...	790	748	1,538
August	17	11	19	17	2	1	6	5	390	369	125	128	179	175	59	48	6	7	45	48	4	6	8	9	1	...	...	...	...	1	861	820	1,681
September... ...	17	11	23	15	4	...	3	5	420	378	140	127	163	141	78	64	10	14	47	52	5	5	6	10	2	...	...	...	...	1	918	828	1,736
October	30	26	21	28	1	4	2	4	438	456	145	157	192	195	78	51	19	10	51	45	11	5	12	6	...	...	4	2	...	...	1,004	989	1,993
November	29	7	28	18	3	2	12	4	475	448	160	135	204	192	71	77	13	14	40	41	8	7	13	3	...	...	1	1	2	...	1,064	949	2,013
December	19	12	25	22	2	2	11	6	484	511	147	131	188	182	64	58	12	14	53	46	6	6	12	13	...	...	...	1	...	...	1,023	1,004	2,027
Total ... Males ...	229	...	224	...	23	...	60	...	4,606	...	1,463	...	1,924	...	684	...	111	...	501	...	59	...	107	...	3	...	8	...	4	...	10,006	...	
Total ... Females	...	147	...	199	...	16	...	60	...	4,581	...	1,446	...	1,829	...	629	...	93	...	475	...	54	...	97	...	...	...	5	...	7	...	9,638	
Total ... Persons.	376		423		39		120		9,187		2,909		3,753		1,313		204		976		113		204		3		13		11				19,644

TABLE showing the number of Still-births by Race and Month in 1913.

MONTHS.	MALES.																FEMALES.																PERSONS.															
	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Other and Unknown Castes.	Total.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Other and Unknown Castes.	Total.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Other and Unknown Castes.	Total.
January.. ..	1	2	..	..	27	10	14	1	..	6	..	..	..	..	1	62	2	3	..	1	20	11	9	4	..	2	..	..	..	..	..	52	3	5	..	1	47	21	23	5	..	8	..	..	..	..	1	114
February ..	..	4	..	1	26	7	14	3	..	1	..	..	..	..	2	58	..	2	..	..	15	5	11	1	..	2	..	..	..	..	..	36	..	6	..	1	41	12	25	4	..	8	..	..	..	..	2	94
March	2	3	..	1	23	11	16	2	2	..	..	..	..	..	2	62	..	2	2	..	19	7	11	..	..	2	..	..	..	..	2	45	2	5	2	1	42	18	27	2	2	2	..	..	..	..	4	107
April	3	2	..	1	26	9	18	3	3	7	1	2	..	..	1	70	1	3	..	..	19	12	6	5	1	2	..	..	..	..	1	50	4	5	..	1	45	20	19	8	4	9	1	2	..	..	2	120
May	3	2	1	..	30	16	12	2	..	2	..	..	..	..	2	70	1	1	1	..	15	8	9	1	..	1	1	..	..	..	1	34	4	3	2	..	45	19	21	3	..	3	1	..	..	..	3	104
June	2	2	..	..	27	14	7	9	1	3	..	..	..	..	4	69	..	..	1	..	16	16	8	3	..	3	1	..	..	..	1	49	2	2	1	..	43	30	15	12	1	6	1	..	..	..	5	118
July	2	2	..	1	45	5	18	5	..	4	..	..	..	..	2	84	2	..	..	..	27	12	10	4	..	1	..	1	..	..	3	60	4	2	..	1	72	17	28	9	..	5	..	1	..	..	5	144
August	..	3	..	..	38	21	23	3	1	3	..	..	..	..	1	89	1	..	1	..	25	17	20	..	3	4	..	..	..	..	4	75	1	3	1	..	63	38	43	3	4	7	..	..	..	..	5	178
September ..	1	2	..	2	51	10	21	5	..	4	..	..	..	..	3	99	1	1	..	1	39	6	11	1	..	5	..	1	..	..	3	69	2	3	..	3	90	16	32	6	..	9	..	1	..	..	6	168
October	4	5	..	1	45	12	17	7	3	3	..	..	..	..	2	99	3	2	2	1	25	15	14	3	1	1	..	2	1	..	2	72	7	7	2	2	70	27	31	10	4	4	..	2	1	..	4	171
November ..	3	5	2	2	27	14	19	9	.	4	1	..	..	..	..	86	2	5	..	..	24	13	9	2	..	2	..	..	..	..	2	59	5	10	2	2	51	27	28	11	..	6	1	..	..	..	2	145
December ..	3	3	..	2	37	12	14	2	..	3	..	1	..	..	2	79	1	2	1	..	23	6	16	3	..	2	..	..	..	..	1	55	4	5	1	2	60	18	39	.	..	5	..	1	..	..	3	134
Total ..	24	85	8	11	402	140	193	51	10	40	2	3	..	..	22	936	14	21	8	8	267	128	134	27	5	27	2	4	1	..	20	656	38	56	11	14	669	263	327	78	15	67	4	7	1	..	42	1,592

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